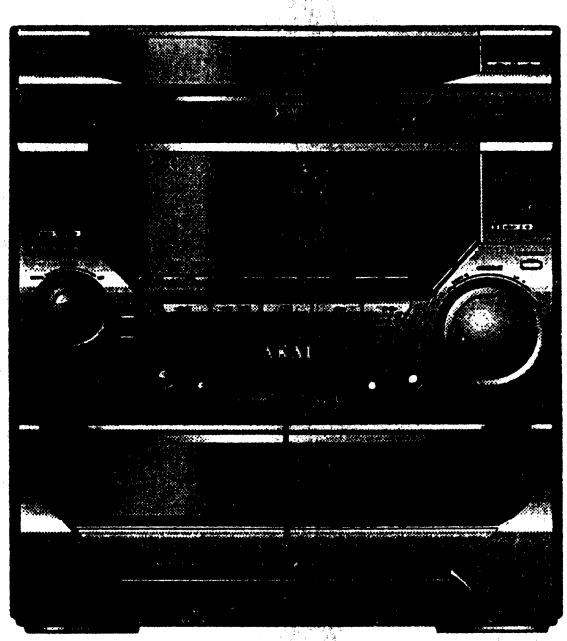
# AKAI SERVICE MANUAL



• The above illustration shows the AC-720 model.

DOLBY B NR

COMPACT disc DIGITAL AUDIO

DOLBY SURROUND PRO • LOGIC

MINI STEREO COMPONENT SYSTEM

MODEL **AC-520/523R/525K**

MODEL **AC-720/723R/725K**

MODEL **SR-525/720**

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## PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace them only with parts whose numbers are specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selection switches, RF cables, noise-blocking capacitors, noise-blocking filters, etc.
3. Use specified internal Wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulating Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulating sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitor, etc.), wrap ends of wires securely about the terminals before soldering.

6. Make sure that wires do not contact heat generating parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
7. Check if replaced wires do not contact sharply edged or pointed parts.
8. Also check areas surrounding repaired parts.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

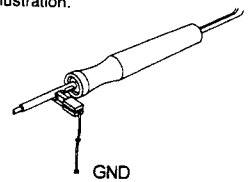
## SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to check if exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts, (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohm paralleled with a 0.15 μ F capacitor, under the unit's normal working condition.
The leakage-current should be less the 0.5mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch "ON" (if included). The resistance should be more than 2.2Mohms.

## PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points

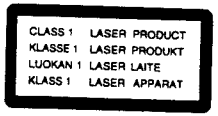
1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair or adjustment. Make sure that there are no metal objects between the P.C board or the mecha parts and the base.
3. The Micro-Computer and the CD signal processing ICs may be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



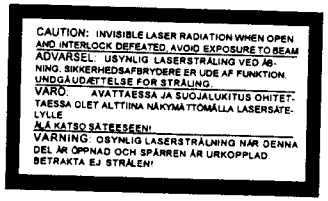

4. Do not loosen any screws in the pick-up block. Please refer to NOTE when replacing the pick up block.
5. To avoid hazardous invisible Laser Radiation, do not look at the Laser Beam (Objective lens) directly.
6. On model for some countries, laser warning labels are affixed on and inside of the unit as shown below. For your safety, read these labels carefully before repairing or adjusting the unit.

## CAUTION

The use of controls or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation.
[ EUROPE, SCANDINAVIA, UK and AUSTRALIA ]




Label affixed on the rear panel of the unit


CAUTION: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID EXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING. SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLÄ LASERSÄTEILYLLE
ÄLÄ KATSO SÄTEESEEN!
VARNING: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN!

Label affixed on the CD MECHA BLOCK



# INFORMATION

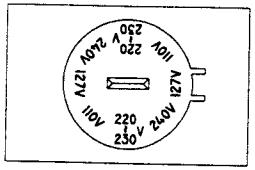
## SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

| Symbol | Principal Destination |
|---|---|
| A | USA |
| B | UK |
| E | Europe (except, UK) |
| S | Australia |
| V | Germany |
| U | Universal |
| Y* | Custom version |

## VOLTAGE CONVERSION( U Y Model only)

Before connecting the power cord, set the VOLTAGE SELECTOR located on the rear panel of the AC-515K/715K so that the correct voltage for your area is indicated.




[U5,U8, Y6, Y7 ]

## TEST MODE

Various kind of test modes are installed in this unit's microcomputer in order to test them on the production line. Following test modes among the various test modes can be used for adjustment, operation check or maintenance. To terminate the test mode, simply press the "POWER ON/STANDBY " button or disconnect the AC power cord from the AC outlet.

### 1. DECK TEST MODE

This test mode can be used for tape speed adjustment as well as bias oscillator frequency adjustment in TAPE DECK section.
While pressing and holding the "TAPE II" and "▶" (F) buttons, connect the AC power cord to AC outlet. The function turns to "TAPE I" and "DUBX1" as well as " "T P I □ □ □ □" indicators on the FLD light when this mode is engaged.

### 2. DECK CLEANING MODE

This test mode can be used for cleaning of the TAPE DECK mechanism.
Because, this mode enables engaging of the playback, fast forward (FF), and rewind (RWD) modes without a cassette tape, it makes the cleaning (such as the capstan shaft, magnetic head, pinch roller etc.,) easier.
While pressing and holding the "TAPE I" and "◀ II" (F) button, connect the AC power cord to the AC outlet. The tape run indicator lightwithout the cassette tape when this mode is engaged.

# SPECIFICATIONS

**[Tuner Section]**

Frequency range

FM ..... 87.5-108MHz(50KHz step)
MW ..... 530-1710KHz(U8)
531-1602KHz (except U8)
LW ..... 144-288KHz(1KHz step) (E1/E2/E3/B1 only)
SW ..... 3.8-12.5MHz(5KHz step) (Y7 only)

USABLE SENSITIVITY

FM ..... 16.2dBf IHF,3%THD (except E1/E2/E3/B1)
20.2dBf IHF, 3%THD (E1/E2/E3/B1)
MW ..... 500uV/m
LW ..... 800uV/m
SW ..... 800uV/m

S/N Ratio(IHF)

FM ..... MONO 75dB, STEREO 65dB
MW ..... 40dB
LW ..... 30dB
SW ..... 30dB
Stereo separation ..... 40dB(at 1KHz)

**[AMPLIFIER Section]**

Power output ..... (AC-520/523R/525K) 100W+100W(6ohms, 10%THD, EIAJ)
80W+80W (6ohms, 1%THD, DIN)
(AC-720/723R/725K) 133W+133W(6ohms, 10%THD, EIAJ)
106W+106W (6ohms, 1%THD, DIN)
Input sensitivity (AUX IN) ..... 390mV/47KΩ
channel separation ..... 64dB
Frequency response ..... 10Hz-100KHz(-3dB)

**[DECK SECTION]**

Track system ..... 4track, 2channel system
Frequency response ..... 40Hz-15KHz (Normal tape, ±3dB)
40Hz-16KHz(Cro2 tape, ±3dB)
Wow & Flutter ..... 0.09% (WRMS), 0.15%(DIN)
S/N ratio ..... Dolby B 63dB (5KHz)
Dolby off 53dB (Cro2 tape)
Total harmonic distortion ..... less than 0.5%(normal tape at 315Hz)
Channel separation ..... 43dB



**[CD SECTION]**

Pick up system ..... 3Beam Laser
Sampling frequency ..... 44.1KHz
Error correction system ..... Cross interleave read solomon
Number of channels ..... 2Channe
Frequency response ..... 20Hz-20KHz
Wow & Flutter ..... Below measurable limits
S/N ratio ..... 83dB
Total harmonic distortion ..... 0.035% (at 1KHz)
Channel separation ..... 73dB(at 1KHz)
Dynamic range ..... 82dB (at 1KHz)

**[GENERAL]**

Power requirement
E1/E2/E3/B1/S1 ..... AC 220-230V/50Hz
U5/U8/Y6/Y7 ..... AC 110/127/220-230/240V, 50/60Hz
Power consumption ..... 120W/AC-520/523R/525K, 200W/AC-720/723R/725K
Weight ..... 8.7Kg/AC-520/523R/525K, 10.2Kg/AC-720/723R/725K

**[SPEAKER SECTION]**

| ITEM | SR-525 | SR-725 |
|---|---|---|
| System Constructions | 3-way 3-speakers | 3-way 3-speakers |
| Woofer Unit | 135mm Cone type | 135mm Cone type |
| Midrange Unit | 65mm Cone type | 65mm Cone type |
| Tweeter Unit | 50mm type (ambiance) | 50mm type (ambiance) |
| System Impedance | 6Ω | 6Ω |
| Maxium Power Input | 120w | 160w |
| Sensitivity | more than 87dB/w/m | more than 87dB/w/m |
| Frequency Response | 55Hz-20KHz | 50Hz-20KHz |
| Harmonic Distortion | less than 3% | less than 3% |
| Enclosure Type | bass reflex type | bass reflex type |
| Units Layout | L/R mirror layout | L/R mirror layout |
| Dimensison | 220(W)X388(H)X266(D) | 200(w)X388(H)X266(D) |
| Net Weight | 3.9Kg/pc | 4.9Kg/pc |

For improvement purposes, specifications and design are subject to change without notice.

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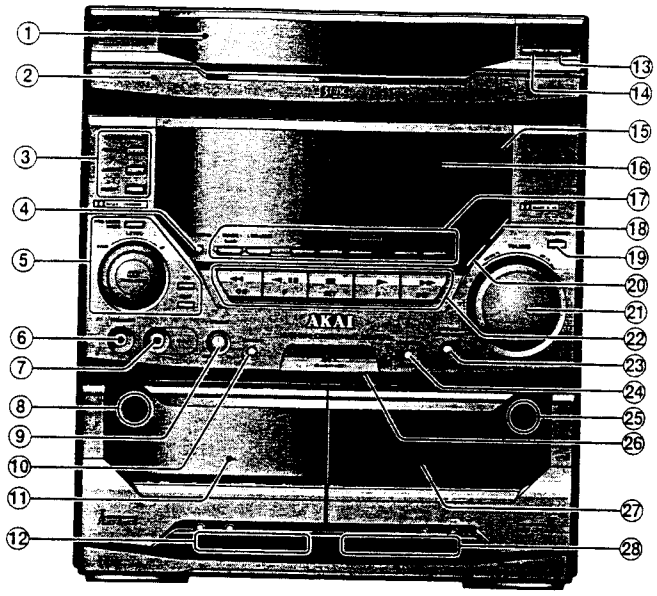
## A MAIN UNIT

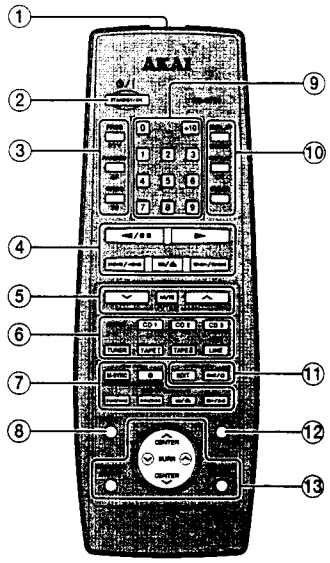



AC-720

1. PRO LOGIC FL display(AC-720/723R/725K only)
2. Disc tray
3. TIMER CONTROL buttons
   PROG button
   ON/OFF button
   SLEEP button
4. CH MEMO button
5. DOLBY PROG LOGIC operation buttons(AC-720/723R/725K only)
   PRO LOGIC MODE button
   CH button
   PROG LOGIC on/off button and LEVEL control
   TEST button
6. PHONES jack
7. MIC jack
8. Tape deck I PUSH OPEN button
9. Mixing control
10. Dimmer button
11. Tape deck I cassette compartment
12. Tape deck I direction indicator and transportation indicator
13. TRAY OPEN/CLOSE button
14. DISC CHANGE button
15. Remote sensor
16. System FL display
17. Input source select buttons(AUX is not included on the AC-520/523R/525K models)
    TUNER BAND, LIINE/AUX, CD1, CD2, CD3, TAPE I, TAPE II
18. DUB SPEEDx1/x2 button
19. BALANCE button
20. REC button
21. Volume control
22. Multi-function buttons
23. DYNAMIC SUPER BASS button
24. DOLBY NR button
25. Tape deck II PUSH OPEN button
26. STANDBY/ POWER ON button
27. Tape deck II cassette compartment
28. Tape deck II direction indicator and transportation indicator



## B Remote Control




RC-S720

When using the remote control for operation, make sure that it is pointing to the remote sensor window on the main unit.

1. Transmitting window
2. ⏻/I POWER ON/STANDBY button
3. CD operation buttons/RDS buttons
   (The RDS function is only available on the AC-723R/523R)
4. Multi-function buttons
5. VOLUME buttons
6. Input source select buttons
7. MD operation buttons
   M-SYNC buttons
   ● REC button
   ⏮/◀◀ buttons
   ▶▶/⏭ buttons
   ■/⏏ buttons
   ▶/❚❚ buttons
8. PRESET button
9. CD/TUNER 11 KEY buttons
10. CD operation buttons/RDS buttons
    (The RDS function is only available on the AC-723R/523R)
11. TAPE REC buttons
    I●I/○ REC/PAUSE button
    EDIT button
12. FLAT button
13. PRO LOGIC operation buttons
    PROG LOGIC ON/OFF buttons
    PROG LOGIC MODE button
    CENTER ^/v buttons
    SURRound ^/v buttons

* These PROG LOGIC operation buttons are not included on the RC-S520 remote control (for AC-520/523R model operation)
These MD operation buttons can only be used if you have connected the optional MD recorder (MD-720).

**Note:**
The remote control can not be used for some functions that require the combined pressing of two tape transportation buttons (intro scan or auto play for example). Please Use the Main unit's multi-function buttons for the operation of such functions.

## I. DISASSEMBLY

1-1. REMOVE OF MAIN COVER
1) Remove the seven screws on back and six screws on both sides.
2) Remove the MAIN COVER

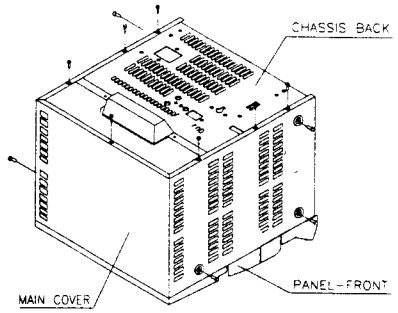



Fig. 1-1

1-2. REMOVE OF CD MECHA & FRONT PANEL
1) Remove the CD door
2) Remove the four screws (A) on both sides and disconnect three connectors and the flat cable from the TC-DK P.C.B.
3) Remove the CD player block
4) Remove the three screws (B) and two screws (C) on both sides.
5) Remove the FRONT PANEL

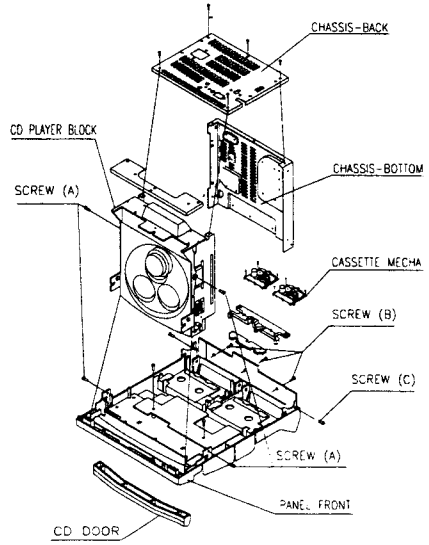



Fig. 1-2

## II. PRINCIPAL PARTS LOCATION

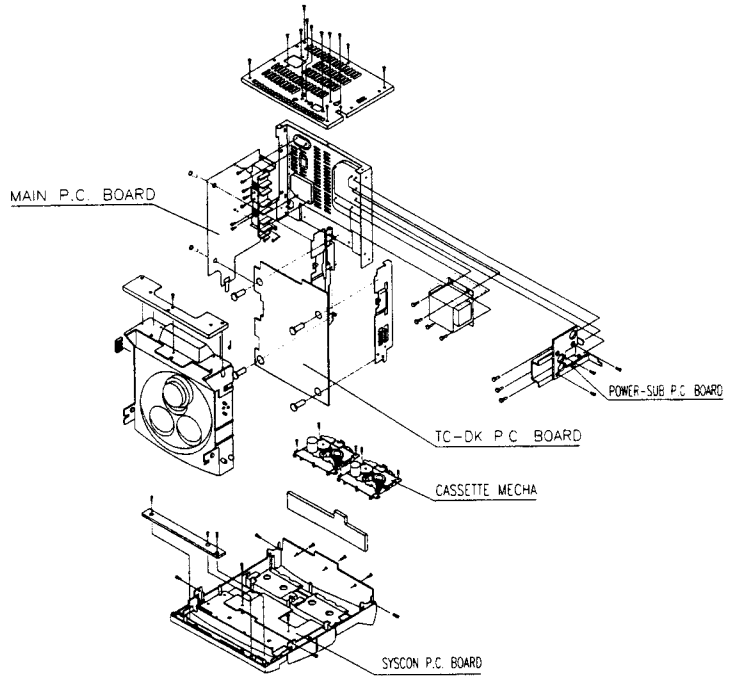



Fig. 2-1

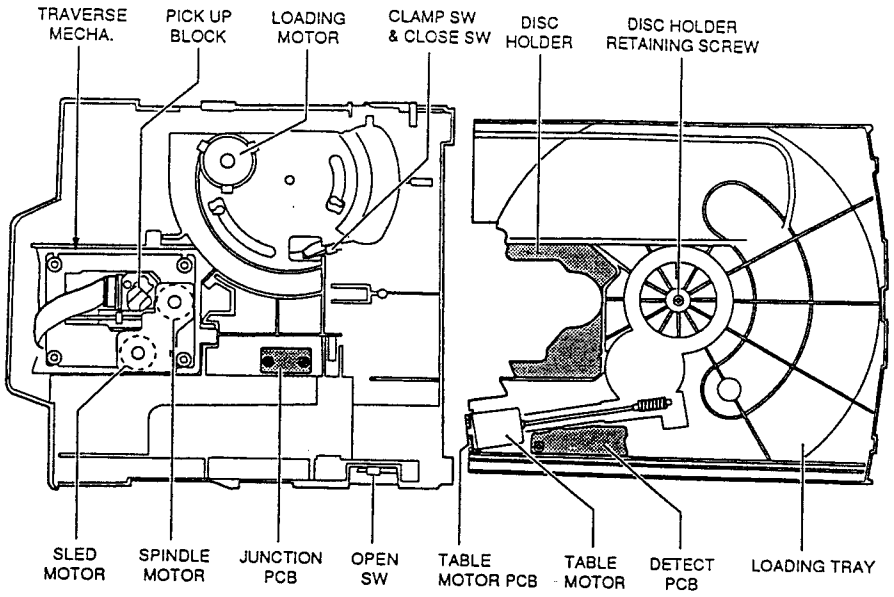



Fig. 2-2 CD PLAYER BLOCK



# III. DISASSEMBLY OF THE MAIN COMPONENTS

## 3-1. CD PLAYER BLOCK

* Remove the CD PLAYER BLOCK before proceeding.

### 3-1-1. Removal of the TRAVERSE MECHA.

1) Remove the TRAVERSE COVER by releasing the two tabs in the direction of the arrow as shown in Fig. 3-1.

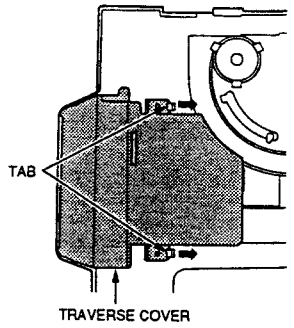



Fig. 3-1

2) Short the circuit on the PICK UP BLOCK with solder as shown in Fig. 3-2.

**Note:** To protect the laser diode from damage caused by high voltage static electricity, a part of the PCB on the PICK UP BLOCK has to be shorted before disconnecting the connectors. After replacement, be sure to connect the two connectors and then remove the solder of the shorted circuit before turning the power ON.

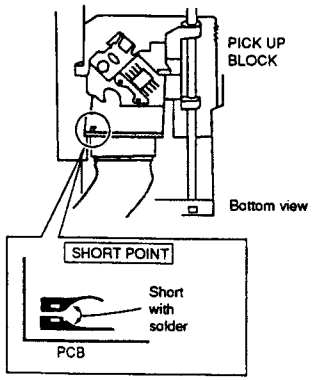



Fig. 3-2

3) Disconnect the two connectors carefully.

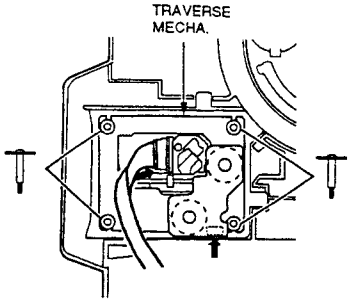



Fig. 3-3

4) Remove the four retaining screws, then remove the TRAVERSE MECHA.
5) Proceed in the reverse order for installation but never unsolder the shorted circuit before connecting the three connectors.

### 3-1-2. Replacement of the SLED MOTOR

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
2) Unsolder the leads of the SLED and SPINDLE MOTORs then remove the MOTOR PCB.

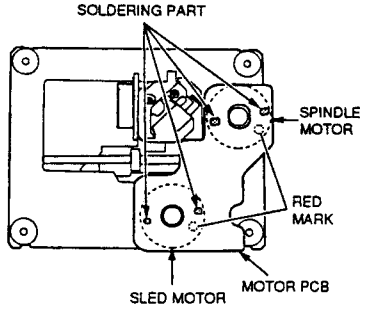



Fig. 3-4

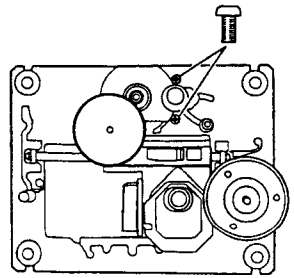


Fig. 3-5

3) Remove the two retaining screws, then remove the SLED MOTOR.
Next, extract the plastic gear from the motor shaft and attach it onto the new motor's shaft.
4) Reassemble in the reverse order.

**About the SPINDLE MOTOR:**
Replacement of the SPINDLE MOTOR itself is not recommended, because adjustment of the TURN TABLE height is quite critical and requires the use of a special jig.

### 3-1-3. Replacement of the PICK UP BLOCK

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
2) While pressing the Ⓐ stopper upwards, pull the SLIDE SHAFT to the right to remove the PICK UP BLOCK, then replace the PICK UP BLOCK.

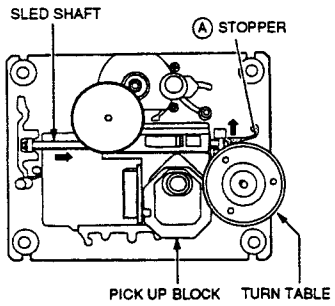



Fig. 3-6

3) Reassemble in the reverse order.

### 3-1-4. Replacement of the LOADING MOTOR

1) Slide the protruding part of the GEAR HOLDER PART in the direction of the arrow, then pull out the TRAY BLOCK.

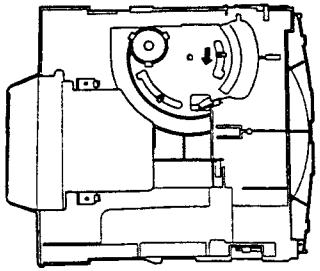


Fig. 3-7

2) Unhook the LOADING BELT with tweezers.

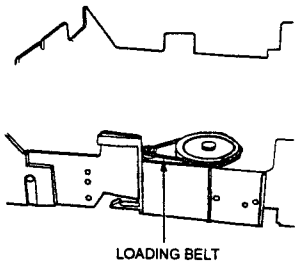



Fig. 3-8

3) Unsolder the lead wires of the LOADING MOTOR with a soldering iron.
4) While releasing the LOADING MOTOR's three retaining hooks, push the motor pully part down with your middle finger to remove the LOADING MOTOR, then replace it.

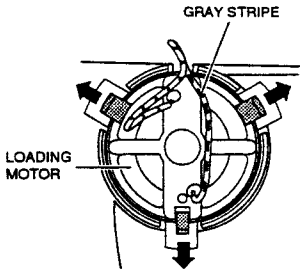



Fig. 3-9

5) Reassemble in the reverse order. Make sure that the wire with the gray stripe is connected to the motor's O marked terminal when soldering.

### 3-1-5. Removal of the TRAY BLOCK

1) If the TRAY BLOCK is in the "in" position, slide the protruding part of the GEAR HOLDER PART in the direction of the arrow and pull out the TRAY BLOCK slowly (refer to Fig. 3-7).
2) In order to disengage the two stoppers, carefully press the Ⓐ part of the TRAY BLOCK downwards while pulling the TRAY BLOCK out as shown in Fig. 3-10.



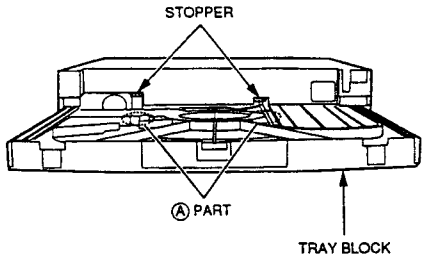



Fig. 3-10

4) Remove the TRAY BLOCK by pulling it out carefully.
5) Reassemble in the reverse order for installation. When reattaching the TRAY BLOCK to the chassis, carefully align the guides on both sides of the TRAY BLOCK with their corresponding rails on the chassis. Also, make sure that any one of the reference marks on the DISC HOLDER aligns with the reference mark on the LOADING TRAY.

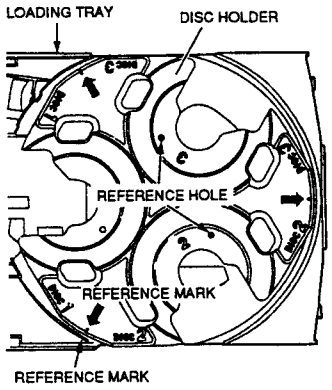



Fig. 3-11

Next, move the head of the GEAR HOLDER PART in the direction of the arrow before engaging the stoppers as shown in Fig. 3-12.

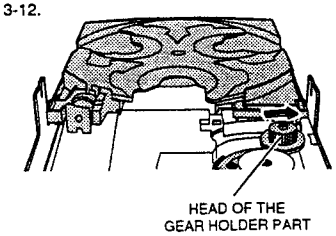



Fig. 3-12

### 3-1-6. Replacement of the TABLE MOTOR

1) Remove the TRAY BLOCK (refer to section 3-1-5).
2) Remove the DISC HOLDER retaining screw then remove the DISC HOLDER.



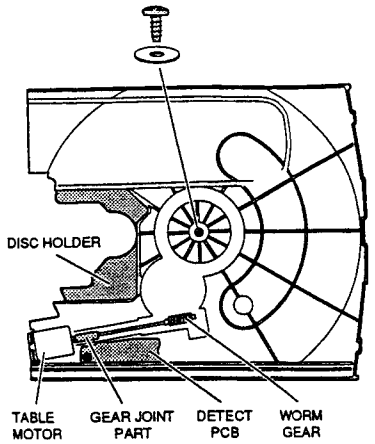



Fig. 3-13

3) Unsolder the leads of the TABLE MOTOR and remove the TABLE MOTOR PCB.

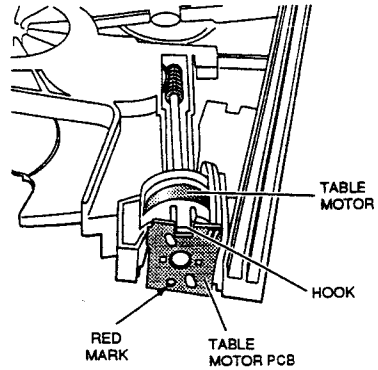



Fig. 3-14

4) Remove the TABLE MOTOR by pulling it out while opening the TABLE MOTOR retaining hook. Next, remove the WORM GEAR BLOCK by pulling the GEAR JOINT PART out and attach it to the new motor as shown in Fig. 3-13.
5) Reassemble in the reverse order.
- When soldering the TABLE MOTOR PCB on the TABLE MOTOR, the TABLE MOTOR's red mark must be visible through the hole on the TABLE MOTOR PCB.
- When attaching the DISC HOLDER on the LOADING TRAY, make sure to place the DISC HOLDER so that any one of the three reference marks aligns with the reference mark on the LOADING TRAY (any two reference holes on the DISC HOLDER align with the corresponding reference holes on the LOADING TRAY accordingly). (Refer to Fig. 3-11)

## 3-2. TAPE-I & TAPE-II MECHANISM BLOCK

* If CASSETTE MECHANISM BLOCK removal is intended, press both the "EJECT" buttons on the FRONT PANEL to open the CASSETTE HOLDERs and CASSETTE DOOR before proceeding (AC-600/603R/605K only).

### 3-2-1. Removal of the MECHANISM BLOCK

1) Remove the FRONT PANEL BLOCK.
2) Remove the four screws for each of the TAPE-I and TAPE-II MECHANISM BLOCKs then remove the MECHANISM BLOCKs from the FRONT PANEL BLOCK.

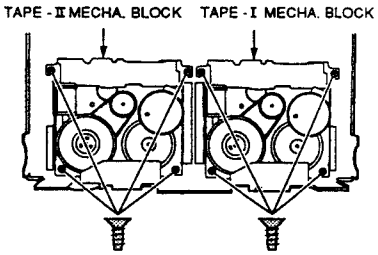



Fig. 3-15

### 3-2-2. Replacement of the CAPSTAN MOTOR

NOTE : After replacement, tape speed adjustment must be performed.

1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
2) While pressing the INTER-LOCK LEVER in the direction of the arrow, remove the two Ⓑ screws and then remove the CAPSTAN MOTOR.

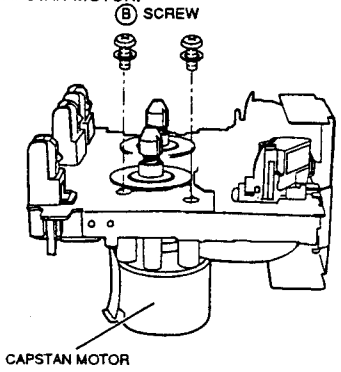



Fig. 3-16

3) Install a new motor and re-assemble in the reverse order for installation.

### 3-2-3. Replacement of the FR BELT

1) Unthread the MAIN BELT and replace the FR BELT as shown in Fig. 3-17.
2) Proceed in the reverse order for installation.

### 3-2-4. Replacement of the MAIN BELT

1) Remove the CAPSTAN MOTOR
2) Replace the MAIN BELT and re-assemble in the reverse order for installation.

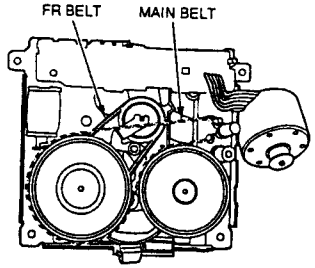



Fig. 3-17

3) After replacement, check the tape speed and if the result is not satisfactory, tape speed adjustment must be performed.

### 3-2-5. Replacement of the PINCH ROLLER BLOCK

1) Extract the PINCH ROLLER BLOCK upwards while releasing the pinch roller retaining hook in the direction of the arrow.

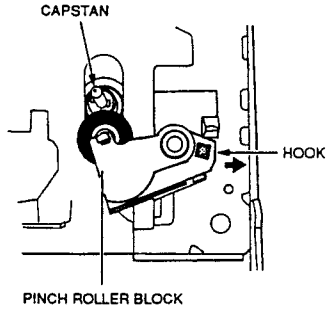



Fig. 3-18

2) Replace the PINCH ROLLER BLOCK and re-assemble in the reverse order. Attach the spring in the correct position when placing the PINCH ROLLER BLOCK.



### 3-2-6. Replacement of the PB HEAD OR REC/PB HEAD

1) Remove the two Ⓐ screws and remove the HEAD SHIELD PLATE.

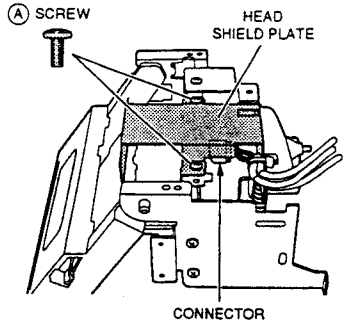



Fig. 3-19

2) Disconnect the connector on the CONNECTOR PCB and remove the PCB retaining screw.

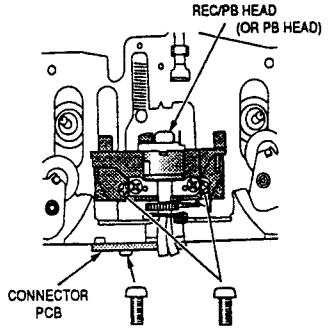



Fig. 3-20

3) Remove the two head retaining screws and remove the HEAD BLOCK.
4) Reassemble in the reverse order. After replacement, demagnetize the HEAD then perform head azimuth adjustment.

# IV. MECHANICAL ADJUSTMENT

## 4-1. ADJUSTMENT OF THE HEAD AZIMUTH ALIGNMENT

1) Connect an oscilloscope to the L-ch and R-ch LINE terminals of the unit.

2) Play back a 10 kHz (–15 dB), HEAD AZIMUTH ALIGNMENT TEST TAPE (TF-106CH) then adjust the HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREWs respectively so that the waveform level of both the L-ch and R-ch are at maximum and also they are in the same phase in both FWD and REV directions. (Use a sharp edge philips type screwdriver that is de-magnetized for adjustment.)
Perform the adjustment on both the TAPE-I and TAPE-II heads if necessary.

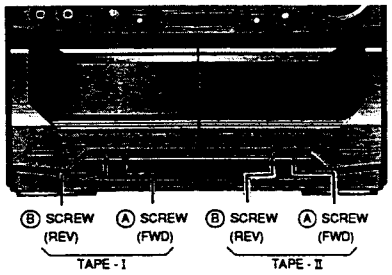



Fig. 4-1



# V. ELECTRICAL ADJUSTMENT

## 5-1. TAPE DECK SECTION

**NOTE :**
1) The following adjustment should be performed in the "DECK test mode".
To engage the DECK test mode, connect the AC power cord to the AC outlet while pressing the "TAPE-II" and "▶ ( F )" buttons together.
When the "DECK test mode" is engaged, the "DUBX1" indicator on the FL display will light.
2) When performing the tape speed adjustment, observe the following notes.
- Adjustment should be started more than 30 seconds after the power is switched ON.
- Adjustment should be made on X2 speed mode first then adjust the normal speed mode.
- Adjustment should be made in the forward direction.

3) To disengage the "DECK test mode", press the "POWER" button or unplug the AC power cord from the AC outlet.

| STEP | ADJUSTMENT |
|---|---|
| 1. | Test tape/input signal |
| 2. | Mode |
| 3. | Check point, adjustment part |
| 4. | Remarks (•) and result (✱) |

Adjustment Part →
Test Point

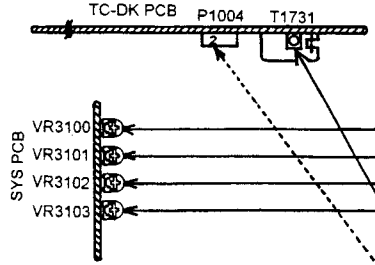
**1 TAPE-I (X2) TAPE SPEED**
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. LINE OUT, VR3100
4. • Connect a frequency counter to the LINE OUT (L or R) and press the "DUBBING" button to engage double speed.
✱ 6,340 ± 20 Hz

**2 TAPE-I NORMAL TAPE SPEED**
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. LINE OUT, VR3101
4. • Connect a frequency counter to the LINE OUT and press the "▶ ( F )" button again to resume normal tape speed.
✱ 3,150 ± 10 Hz

**3 TAPE-II (X2) TAPE SPEED**
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. LINE OUT, VR3102
4. • Press the "TAPE-II" button and play back the test tape.
• Connect a frequency counter to the LINE OUT and press the "DUBBING" button to engage double speed.
✱ 6,320 ± 20 Hz

**4 TAPE-II NORMAL TAPE SPEED**
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. LINE OUT, VR3103
4. • Connect a frequency counter to the LINE OUT and press the "▶ ( F )" button again to resume normal tape speed.
✱ 3,140 ± 10 Hz

**5 BIAS OSC FREQUENCY**
1. CrO2 type blank tape
2. TAPE-II, REC
3. P1004 ② pin, T1731
4. • Connect a frequency counter between P1004 pin and GND. (10 : 1 probe should be used to avoid affecting the measurement.)
• Start a recording (press the "REC" button then press the "▶" button).
The "AUX" source indicator appears automatically.
✱ 100.0 ± 0.2 kHz



## 5-2.CD PLAYER SECTION

**TEST MODE FOR CD PLAYER'S OPERATION**

Some adjustments of the CD PLAYER section are automatically carried out by the micro computer.

If the CD player section is defective and it is necessary to partially check the operation, "CD TEST" mode can be used while repairing.

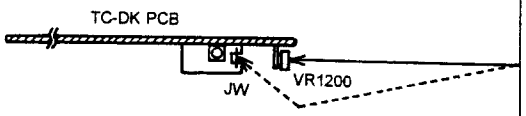
**Engaging the "CD TEST" MODE**

While pressing and holding both the "CD1" and "◀II(F)" buttons, plug in the AC power cord to the AC outlet.

**Note :**

- During "CD TEST" mode, only the DISC"1" ▲ open/close button can be used for loading. So, place a disc on "TRAY 1".
- Proceed testing by pressing the "CD1" button once for each testing step.
- To disengage the "CD TEST" mode, press the "POWER ON/STANDBY" button or disconnect the AC power cord from the AC outlet.

| DISPLAY | FUNCTION |
|---|---|
| T0 (TEST-0) | Initial condition of the "CD TEST" mode. |
| T1 (TEST-1) | Perform "focus search". |
| T2 (TEST-2) | Turn on the "focus servo". |
| T3 (TEST-3) | Mode of the "E-F balance" adjustment. |
| T4 (TEST-4) | E-F balance adjustment is carried out automatically and its data value is displayed on the FLD. |
| T5 (TEST-5) | Mode of the "Tracking gain" adjustment. |
| T6 (TEST-6) | Tracking gain adjustment is carried out automatically and its data value is displayed on the FLD. |
| T7 (TEST-7) | Normal playback mode is engaged. |




| 1 | FOCUS OFFSET |
|---|---|
| 1. Test disc (SONY TYPE-III) | |
| 2. Play back | |
| 3. JW and VR1200 | |
| 4. Connect the hot side probe of an AC milivoltmeter to JW on the BIAS OSC PCB and GND side probe to the chassis. Adjust the VR1200 on the TC-DK PCB until indication of the AC milivoltmeter is maximum. | |



# VI. PARTS LIST

**ATTENTION**

1. When placing an order for parts, be sure to list the part No., Model No. and the description of each part. Otherwise, the nondelivery of the part or the delivery of a wrong part may result.
2. Please make sure that part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in parts list of preliminary service manual may have been the subject of changes, please use this parts list for all future reference.

**[NOTE]**

1. This parts list lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts list shows those parts in the parts list which are considered particularly important for service.
3. Parts not shown in the parts list and "Common List for Service Parts" will not in principle be supplied.

**WARNING**

⚠ ( * ) INDICATED SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

**AVEERTISSEMENT**

⚠ ( * ) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

**1. REMOTE P.C. BOARD**

| REF. NO. | PARTS No. | DESCRIPTION |
|---|---|---|
| CF001 | 007-300455-46 | RESONATOR CRK455 455KHz |
| IC001 | 033-806122-13 | REMOTE TRANSMITTER UPD6122G-001 |
| LED001 | 130-670303-00 | INFRA RED EMITINT DIODE EL-1L1 |
| PCB | 090-010302-03 | REMOTE BOARD T=1.6mm 94HB (46X119mm) |
| Q001 | 031-278050-03 | TRANSISTOR NPN KTC8050C |
| D001-004 | 030-134148-00H | D SILICON IN4148 |
| | 210-010301-01S | REMOTE BATTERY COVER |

**2. SYS CON P.C. BOARD**

| REF. NO. | PARTS No. | DESCRIPTION |
|---|---|---|
| D 3001/3002/3004-3015/3123/3124 | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3080-3087/3102-3109/3111-3112 | | |
| D 3003/3016/3017/3110/3120 (for AC-720/723R/725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3027/3028/3030/3131/3037/3038/ | 030-560034-10 | D LED MYB34C YELLOW |
| D 3040/3041/3043/3044/3052/3053/ | | |
| D 3055/3056 | | |
| D 3026/3029/3026/3039/3042/3054/ | 030-540034-04 | D LED MGB34D GREEN |
| D 3200-3211/3051 | | |
| D 3020/3024/3025/3032-3034/3045-3049 | 030-560031-00 | D LED MYB31CA YELLOW |
| D 3021 | 030-510031-00 | D LED MSB31TA RED |
| D 3050(for AC-720/723R/725K) | 030-530031-04 | D LED MGB31C GREEN |
| D 3113(S1/Y7) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3114(for AC-525K/725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3115(S1) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3116(for AC-523R/723R) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3117(for AC-525K/725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3119(E1/B1/RE1/E3) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 3121(for AC-520/523R/525K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| FR3301(for AC-720/723R/725K) | 013-689105-82 | R FUSE V S10 FR25 1/4W 6R8J |
| IC3001 | 034-B01101-02 | IC M38197MA-174FP TX3-SYS75-1 |
| IC3002 | 033-509121-29 | IC PST-9121 T05 |
| IC3003 | 033-002402-42 | IC XL24C02P |
| IC3004 | 033-202011-14 | IC TA2011S |
| IC3005-3007/3200 | 034-304094-18 | IC BU4094BCF |
| IC3100 | 033-304094-18A | IC BU4094BC |
| IC3101(for AC-523R/723R) | 034-106579-33 | IC SAA6579T-T |
| IC3102(for AC-523R/723R) | 034-307073-16 | IC LC7073M |
| IC3300(for AC-720/723R/725K) | 034-816312-13 | IC UPD16312 |
| IN3001 | 035-131065-00 | IND FL SVA-16II05 |
| IN3300(for AC720/723R/725K) | 035-130519-00 | IND FL SVA-05MS19 |
| J 3401 | 061-121406-00 | PHONE J HSJ1406-01-010 3.5 |
| J 3402(for AC-525K/725K) | 061-121406-00 | PHONE J HSJ1406-01-010 3.5 |
| J 3003 | 060-406123-99 | SOCKET 00 6216 006 000 6P |
| J 3022 | 060-423124-99 | SOCKET 00 6216 023 100 23P |
| J 3033/3906/3907 | 060-406123-99 | SOCKET 00 6216 006 000 6P |
| P 3301(for AC-520/523R/525K) | 060-103204-07 | PLUG S3B-PH-K WHT 3P |
| P 3301A(for AC-720/723R/725K) | 060-111204-07 | PLUG S11B-PH-K WHT 11P |
| P 3011(for AC-510/513R/515K) | 060-422124-99 | PLUG TKC-V22P-A1 22P |
| P 3011A(for AC-710/713R/715K) | 060-424124-99 | PLUG TKC-V24P-A1 24P |
| PH3001 | 036-600446-01 | DETECTOR SPS-446-1 |
| SW3001 | 040-002410-20 | SW ROTARY EC16B24304 |
| SW3002 | 046-080001-00 | SW PUSH VPS-800 |
| TR3003-3005/3125/3126 | 031-440144-05V | DTR DTC144ES(47-47) T05 |
| TR3101/3103/3113-3123 | 031-211048-25V | TR 2SA1048 Y,GR T05 |
| TR3100/3102/3104-3106 | 031-234682-00V | TR 2SC4682T05 |
| TR3111(for AC-523R/723R) | 031-211048-25V | TR 2SA1048 Y,GR T05 |
| TR3112(for AC-523R/723R) | 031-440144-05V | DTR DTC144ES(47-47) T05 |
| TR3121(for AC-720/723R/725K) | 031-211048-25V | TR 2SA1048 Y,GR T05 |



| | | |
|---|---|---|
| TR3300-3301(for AC-720/723R/725K) | 031-233576-00V | TR 2SC3576 T05 |
| TR3302(for AC-720/723R/725K) | 031-430114-05V | DTR DTA114ES(10-10) T05 |
| TS3001-3004/3311-3028/3300/3301 | 046-110201-00 | SW TACT 1.T-1102A 160GM |
| TS3005-3010(for AC-720/723R/725K) | 046-110201-00 | SW TACT 1.T-1102A 160GM |
| V3906/3907 | 060-615126-07 | SOCKET 15FE-BT-VK-N 15P |
| VR3001 | 011-202298-00 | VR ROTARY RK11K1140 L17.5 B202 |
| VR3100/3102 | 112-222311-05 | R S-FIX V T05EVNDCAA3 0.10W222 |
| VR3101/3103 | 112-102311-05 | R S-FIX V T05EVNDCAA3 0.10W102 |
| W 3001(for AC-520/523R/525K) | 063-552701-03 | WA PH-SAN L270 3P |
| W 3001A(for AC-720/723R/725K) | 063-552701-11 | WA PH-SAN L270 11P |
| W 3007 | 077-622107-15 | WF 2468#26 P2.0 C09 L100 15P |
| W 3008 | 077-622107-16 | WF 2468#26 P2.0 C09 L100 16P |
| W 3011 | 077-622107-05 | WF 2468#26 P2.0 C09 L100 5P |
| W 3013/3401 | 078-125021-00 | WA EARTH LUG L-200 |
| X 3001 | 007-208000-06 | OSC CE CST8.00MTW 8.000MHZ |
| X 3002 | 037-032768-10M | OSC X'TAL C-002RX 32.768KHZ |
| X 3100(for AC-523R/723R) | 007-204000-06 | OSC CE CST4.00MGW 4.000MHZ |
| X 3101(for AC-523R/723R) | 037-004332-10Z | OSC X'TAL HC-49/U-S 4.33200MHZ |

**3. MAIN P.C. BOARD**

| REF. NO. | PART No. | DESCRIPTION |
|---|---|---|
| D 001/010/022/024/042/044/046/083/ | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 121/123/124/141-143/155-156/ | | |
| D 175-176/221/724 | | |
| D 002/003( for AC-520/523R/525K) | ⚠030-310040-02 | D SILICON DBF40C 200/4.0A |
| D 002A/003A(for AC-720/723R/725K) | ⚠030-310060-02 | D SILICON DBF60C 200/6.0A |
| D 004/005/043/085/144 | 030-410051-20H | D ZENER MTZJ5.1B T52 |
| D 006-009 | ⚠030-310152-06 | D SILICON RL152M11S15 100/1.5A |
| D 021/023/081/151/152/158/171/172/178 | 030-314002-10H | D SILICON 1N4002-F T52 100/1A |
| D 231/232 | | |
| D 025/145/721-723 | 030-410062-10H | D ZENER MTZJ6.2A T52 |
| D 041 | 030-410075-10H | D ZENER MTZJ7.5C T52 |
| D 045 | 030-410015-03H | D ZENER MTZJ15B T52 |
| D 063/066/751-753(for AC-520/523R/525K) | 030-410062-10H | D ZENER MTZJ6.2A T52 |
| D 063A/066A(for AC-720/723R/725K) | 030-410075-10H | D ZENER MTZJ7.5C T52 |
| D 084 | 030-410330-00H | D ZENER MTZJ33B T52 |
| D 153/173 | 030-410030-10H | D ZENER MTZJ3.0A T52 |
| D 154/174 | 030-410110-10H | D ZENER MTZJ11A T52 |
| D 157/177 | 030-315401-00 | D SILICON IN5401M24S15 3A/100V |
| D 224/771-772/775(for AC-720/723R/725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 531-533(for AC-725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 551-554(for AC-525K/725K) | 030-320131-01H | D SILICON H 1SS131T T52 |
| F1(for AC-520/523R/525K) | ⚠ 082-222000-06 | FUSE TIME 218 250V 2.00A |
| F2(for AC-525K) | ⚠ 082-222000-06 | FUSE TIME 218 250V 2.00A |
| F1(for AC-720/723R/725K) | ⚠ 082-222500-06 | FUSE TIME 218 250V 2.50A |
| F2(for AC-725K) | ⚠ 082-222500-06 | FUSE TIME 218 250V 2.50A |
| IC 021 | 033-507805-00B | IC ML7805FA 5V/1A |
| IC 101/801 | 033-304094-18A | IC BU4094BC |
| IC 201(for AC-520/523R/525K) | 033-204201-16 | IC STK4201-2 |
| IC 201A(for AC-720/723R/725K) | 033-204221-16 | IC STK4221-2 |
| IC 501(for AC-525K/720/723R/725K) | 033-K65843-12 | IC M65843AFP |
| IC 581 | 033-904558-30A | IC NJM4558L |
| IC 602(for AC-720/723R/725K) | 034-K02177-74 | IC NJM2177AFB3 |
| IC 701 | 034-262422-12 | IC M62422FP |
| IC 731 | 033-203835-18 | IC BA3835S |
| IC 751/761(for AC-720/723R/725K) | 033-209412-14 | IC TC9412P |
| IC 761A(for AC-520/523R/525K) | 033-009260-14 | IC TC9260P |
| IC 771(for AC-720/723R/725K) | 033-904558-30A | IC NJM4558L |
| IC 802(for AC720/723R/725K) | 033-304094-18A | IC BU4094BC |
| J 011(for AC520/523R/525K) | 060-422122-99 | SOCKET TKC-V22X-A1 22P |

| | | |
|---|---|---|
| J 011A(for AC-720/723R/725K) | 060-424122-99 | SOCKET TKC-V24X-A1 24P |
| J 201(for AC-520/523R/525K) | 061-122000-00 | PHONE J HSJ2000-01-010 3.5 |
| J 201A(for AC-720/723R/725K) | 061-123000-00 | PHONE J HSJ3000-01-010 3.5 |
| L 201/251 | 004-285103-08 | COIL FIX2 202AK018A COILS 2R2K |
| L 281(E1/B1/RE1/E3/A3) | 084-070410-00 | COIL BALUM OPW/5-8-14-5H2 |
| L 801 | 002-300002-09 | COIL LF LF-4D-102 102UH |
| P 006 | 060-112204-07 | PLUG S12B-PH-K WHT 12P |
| P 012 | 060-102045-20 | PLUG B2P-3-VH P7.92 2P |
| P 013/902 | 060-405001-17 | PLUG RTB-1.5-5P 5P |
| P 014 | 060-104205-27 | PLUG B4B-PH-K WHT 4P |
| P 015(for AC-720/723R/725K) | 060-403001-17 | PLUG RTB-1.5-3P 3P |
| R 004-005/043 | ⚠ 013-478205-75 | R OMF H S10FLR ERG12SP1/2WR47J |
| R 047-048 | ⚠ 013-221205-75 | R OMF H S10FLR ERG12SP1/2W221J |
| R 081 | ⚠ 013-478205-75 | R OMF H S10FLR ERG12SP1/2W47J |
| R 021/103/106/109/112 | ⚠ 013-109205-75 | R OMF H S10FLR ERG12SP1/2W1R0J |
| R 153/173 | ⚠ 013-122305-75 | R OMF H S12 FLR ERG1SP 1W 122J |
| R 209/259/283/210/260 | ⚠ 013-100305-75 | R OMF H S12 FLR ERG1SP 1W 100J |
| R 212/262 | 013-108410-51 | R CT P F09 PLATE 2W R10K |
| RL 001-002 | ⚠ 006-110212-04 | RELAY POW OSA-SS 212DM5 TV-3 |
| TM 201 | 061-780401-00 | TERMINAL PUSH CJ-9007-060 4P |
| TR 022/024//026/043 | 031-440114-05V | DTR DTC114ES(10-10) T05 |
| TR 023/281 | 031-221443-00V | TR 2SB1443 TV2 |
| TR 025 | 031-220621-00V | TR 2SB621 R,S T05 |
| TR 044/081 | 031-221375-00 | TR 2SB1375 |
| TR 045/201-203/251-253 | 031-232458-25V | TR 2SC2458 Y,GR T05 |
| TR 046 | 031-242012-00 | TR 2SD2012 |
| TR 021/041/082/101-104/141 | 031-211048-25V | TR 2SA1048 Y,GR T05 |
| TR 121-124 | 031-440114-60V | DTR DTC114TS(10) T05 |
| TR 151 | 031-590175-00 | TR FET 2SJ175 |
| TR 152-172 | 031-232459-57V | TR 2SC2459 GR,BL T05 |
| TR 171 | 031-251093-00 | TR FET 2SK1093 |
| TR 221 | 031-430114-05V | DTR DTA114ES(10-10) T05 |
| TR 222(only for AC-720) | 031-430114-05V | DTR DTA114ES(10-10) T05 |
| TR 285 | 031-440144-05V | DTR DTC144ES(47-47) T05 |
| TR 531(for AC-725K) | 031-430114-19V | DTR DTA114TS(10) T05 |
| TR 532-533/535-536/539-541 (for AC-725K) | 031-440144-60 | DTR DTC144TS(47) T05 |
| TR 534/537-538(for AC-725K) | 031-440114-60V | DTR DTC114TS(10) T05 |
| TR 551-552(for AC-525K/725K) | 031-440114-60V | DTR DTC114TS(10) T05 |
| TR 601-602(for AC-720/723R/725K) | 031-430114-19V | DTR DTA114TS(10) T05 |
| TR 603-604(for AC-720/723R/725K) | 031-440114-60V | DTR DTC114TS(10) T05 |
| W 014 | 063-552301-04 | WA SAN-PH #24 L230 4P |
| W 302(for AC-720/723R/725K) | 063-555501-07 | WA SAN-PH L550 7P |
| W 801(for AC-525K/725K) | 063-502401-11 | WA SDN L200 6P |
| X 501(for AC-720/723R/725K) | 007-002000-40 | OSC CE CSA2.00MG 2.000MHZ |
| X 551(for AC-525K/725K) | 007-200400-03 | OSC CE DCRK400 400.000KHZ |

**4. TC-DK P.C. BOARD**

| REF. NO. | PARTS No. | DESCRIPTION |
|---|---|---|
| D 1300-1304 | 030-314002-10H | D SILICON 1N4002-F T52 100/1A |
| D 1400/1401/1721 | 030-320131-01H | D SILICON H 1SS131T T52 |
| D 1501 | 030-410051-10H | D ZENER MTZJ5.1A T52 |
| FL1611/1621/1661/1671 | 007-100100-09 | COIL TUN 1 100Z-121 100.00KHZ |
| IC1001/1602 | 033-314052-21 | IC MC14052BCP |
| IC1002 | 033-904558-30A | IC NJM4558L |
| IC1003(only for AC-720-723R/725K) | 033-314053-21 | ICMC14053BCP |
| IC1100 | 033-601782-64Q | IC CXA1782BQ |
| IC1200 | 033-K02508-64 | IC CXD2508AQ |
| IC1210 | 033-904558-30A | IC NJM4558L |



| | | |
|---|---|---|
| IC1300 | 033-209258-61 | IC KA9258D |
| IC1400 | 033-206247-18 | IC BA6247 |
| IC1601 | 034-101897-64 | IC CXA1897Q |
| IC1701/1702 | 034-304094-18 | IC BU4094BCF |
| J 1001(for AC-520) | 061-782441-00 | PIN J HSP-244V1-05 2P |
| J 1001A(for AC-720) | 061-472461-00 | PIN J HSP-246V1-05 6P |
| J 1002 | 060-423123-99 | SOCKET 00 6216 023 000 23P |
| J 1100 | 060-416109-99 | SOCKET 00 6232 016 006 16P |
| L 1501(S1/U5/U8/Y6/Y7) | 005-229056-01H | COIL FIX 1 LAP02TA T26 2R2J |
| L 1721 | 005-101056-00H | COIL FIX 1 LAP02TA T26 101J |
| P 1004 | 060-108205-27 | PLUG B8B-PH-K WHT 8P |
| P 1005 | 060-103205-27 | PLUG B3B-PH-K WHT 3P |
| P 1200 | 036-400032-01 | SOCKET OPTICAL GP1F32T |
| P 1400 | 060-105204-27 | PLUG S5B-PH-K WHT 5P |
| P 1401 | 060-107204-29 | PLUG S7B-PH-K WHT 7P |
| P 1402 | 060-106206-27 | PLUG S6B-PH-K WHT 6P |
| T 1731 | 002-800002-09 | COIL OSC 1 C1047 |
| TM1501 | 061-480312-00 | TERMINAL LEVER HSP-312V-02 |
| TR1100/1400/1102/1743 | 031-211048-25V | TR 2SA1048 Y,GR T05 |
| TR1300/1301 | 031-221443-00V | TR 2SB1443 S,E T05 |
| TR1302/1601/1621/1651/1671/1741 TR/1721/1742/1751/1752/1756 | 031-440114-05V | DTR DTC114ES(10-10) T05 |
| TR1401/1501/1611/1612/1661-1662/1701 | 031-232458-25V | TR 2SC2458 Y,GR T05 |
| TR1502(for AC-523R/723R) | 031-250304-06V | TR FET 2SK304 E,F T05 |
| TR1613/1663 | 031-241012-06V | TR 2SD1012-V-SPA-AC F,G,H T05 |
| TR1010/1060/1101/1631/1635/1642/1681 TR1685/1692 | 031-440114-60V | DTR DTC114TS(10) T05 |
| TR1641/1643/1691/1693 (for AC-720/723R/725K) | 031-440114-60V | DTR DTC114TS(10) T05 |
| TR1702/1722(for AC-725K) | 031-430114-05V | DTR DTA114TS(10-10) T05 |
| TR1723-1725 | 031-231815-26V | TR 2SC1815 Y,GR T05 |
| TR1726(E1/B1/RE1/E3) | 031-211048-25V | TR 2SA1048 Y,GR T05 |
| TR1731-1732(E1/B1/RE1/E3) | 031-232458-25V | TR 2SC2458 Y,GR T05 |
| TU1501(E1/E2/B1/RE1/E3) | 103-146601-04 | TUNER TFCB3E720A FM/MW/LW |
| TU1501A(S1/U5/U8/Y6) | 103-146401-04 | TUNER TFCB1U717A FM/AM |
| TU1501B(Y7) | 103-146101-04 | TUNER TFCB1S713A FM/MW/SW |
| VR1200 | 112-103311-05 | R S-FIX V T05EVNDCAA3 0.10W103 |
| W900 | 077-955168-16 | CORD FFC BD L150 16P |
| W 1006 | 063-B01001-12 | WA PH L100 12P |
| W 1400/1401 | 077-322087-09 | WF 2468#26 P2.0 C09 L80 9P |
| W1500 | 072-122008-50 | WD 1007# 22 CO 180 |
| X 1200 | 037-169344-30J | OSC X'TAL HC-49/U16934.400MHz |

**5. POWER-SUB P. C. BOARD (AC-720/723R/725K only)**

| REF NO. | PARTS NO | DESCTIPTION |
|---|---|---|
| D 2001 | 030-310040-02 | D SILICON DBF40C 200/4.0A |
| D 2002-2005 | 030-314002-10H | D SILICON 1N4002-F T52 100/1A |
| IC2301 | 033-404142-16 | IC STK4142-2 |
| J 2301 | 061-780243-00 | PIN J HSP-243V-06 3P |
| L 2301/2351 | 004-285103-08 | COIL FIX2 202AK018A COILS 2R2K |
| L 2381(only AC-720/723R) | 084-070410-00 | COIL BALUM OPW 15-8-14-5H2 |
| P 2301 | 060-404001-17 | PLUG RTB-1.5-4P 4P |
| P 2302 | 060-107205-27 | PLUG B7B-PH-K WHT 7P |
| R 2309/2359/2310/2360 | 013-100305-75 | R OMF H S12 FLR ERG1SP 1W 100J |
| R 2312/2362 | 013-108410-51 | R CT P F09 PLATE 2W R10K |
| TR2301-2303/2351-2353 | 031-232458-25V | TR 2SC2458 Y,GR T05 |
| F5 | ⚠ 082-223150-06 | FUSE TIME 218 250V 3.15A |
| F6 | ⚠ 082-223150-06 | FUSE TIME 218 250V 3.15A |

## 6. P.C. BOARD BLOCK

| REF. NO. | PARTS No. | DESCRIPTION |
|---|---|---|
| 1-a(AC-520/523R) | 771-AC52001-01 | MAIN P.C. BOARD |
| 1-b(AC-525) | 771-AC52001-45 | MAIN P.C. BOARD |
| 1-c(AC-520/523R) | 771-AC52001-02 | PRI. P.C. BOARD |
| 1-d(AC-525K) | 771-AC52001-46 | PRI. P.C. BOARD |
| 1-e(AC-525/523R/525K) | 771-AC52001-03 | SEC. P.C. BOARD |
| 2-a(AC-520 B1/E1/E3) | 771-AC52001-04 | TC-TU/CD/DK P.C. BOARD |
| 2-b((AC-520/525K) | 771-AC52001-26 | TC-TU/CD/DK P.C. BOARD |
| 2-c(AC-523R) | 771-AC52001-37 | TC-TU/CD/DK P.C. BOARD |
| 2-d(AC-525K Y7) | 771-AC52001-81 | TC-TU/CD/DK P.C. BOARD |
| 2-e((AC-520/523R) | 771-AC52001-05 | TC-OSC P.C. BOARD |
| 2-f(AC-520/525K) | 771-AC52001-27 | TC-OSC P.C. BOARD |
| 2-g(AC-520/523R/525K) | 771-AC52001-06 | TC-RELAY P.C. BOARD |
| 3-a(AC-520/523R/525K) | 771-AC52001-07 | SYS-SYS FLD P.C. BOARD |
| 3-b(AC-520 B1/E1/E3) | 771-AC52001-08 | SYS-MECH CON P.C. BOARD |
| 3-c(AC-520 S1) | 771-AC52001-30 | SYS-MECH CON P.C. BOARD |
| 3-d(AC-523R) | 771-AC52001-41 | SYS-MECH CON P.C. BOARD |
| 3-e(AC-525K U5/U8/Y6) | 771-AC52001-52 | SYS-MECH CON P.C BOARD |
| 3-f(AC-525K Y7) | 771-AC52001-85 | SYS-SYS FLD P.C. BOARD |
| 3-g(AC-520/523R/525K) | 771-AC52001-09 | SYS-DECK LED P.C. BOARD |
| 3-h(AC-520/523R/525K) | 771-AC52001-10 | SYS-CDOPE P.C. BOARD |
| 3-i(AC-520/523R) | 771-AC52001-11 | SYS-MIC JACK P.C. BOARD |
| 3-j(AC-525K) | 771-AC52001-55 | SYS-MIC JACK P.C BOARD |
| 4a(AC-520) | 790-010301-01 | REMOTE P.C. BOARD |
| 4b(AC-720) | 790-010302-01 | REMOTE P.C. BOARD |
| 5-a(AC-720/723R) | 771-AC72001-01 | MAIN P.C. BOARD |
| 5-b(AC-725K) | 771-AC72001-47 | MAIN P.C. BOARD |
| 5-c(AC-720/723R) | 771-AC72001-02 | PRI. P.C. BOARD |
| 5-d(AC-725K) | 771-AC72001-48 | PRI. P.C. BOARD |
| 5-e(AC-720/723R/725K) | 771-AC72001-03 | SEC. P.C. BOARD |
| 6-a(AC-720 B1/E1/E3) | 771-AC72001-04 | TC-TU/CD/DK P.C. BOARD |
| 6-b((AC-720 S1 AC-725K U5/U8/Y6/Y7) | 771-AC72001-28 | TC-TU/CD/DK P.C. BOARD |
| 6-c(AC-725K Y7) | 771-AC72001-83 | TC-TU/CD/DK P.C. BOARD |
| 6-d(AC-720/723R) | 771-AC72001-05 | TC-OSC P.C. BOARD |
| 6-e(AC-720/725K) | 771-AC72001-29 | TC-OSC P.C. BOARD |
| 6-f (AC-720/723R/725K) | 771-AC72001-06 | TC-RELAY P.C. BOARD |
| 7-a(AC-720/723R/725K) | 771-AC72001-07 | SYS-SYS LED P.C. BOARD |
| 7-b(AC-720 B1/E1/E3) | 771-AC72001-08 | SYS-MECH CON P.C. BOARD |
| 7-c(AC-720 S1) | 771-AC72001-32 | SYS-MECH CON P.C. BOARD |
| 7-d(AC-723R) | 771-AC72001-43 | SYS-MECH CON P.C. BOARD |
| 7-e(AC-725K U5/U8/Y6) | 771-AC72001-54 | SYS-MECH CON P.C. BOARD |
| 7-f(AC-720/723R/725K) | 771-AC72001-09 | SYS-DECK LED P.C. BOARD |
| 7-g(AC-720/723R/725K) | 771-AC72001-10 | SYS-CDOPE P.C. BOARD |
| 7-h(AC-720/723R) | 771-AC72001-11 | SYS-MIC JACK P.C. BOARD |
| 7-i(AC-725K) | 771-AC72001-57 | SYS-MIC JACK P.C. BOARD |
| 8-a(AC-720/723R) | 771-AC72001-12 | PO SU 720A P.C. BOARD |
| 8-b(AC-725K) | 771-AC72001-09 | PO SU 720A P.C. BOARD |
| 8-c(AC-720/723R/725K) | 771-AC72001-13 | PO SU 720B P.C. BOARD |

## 7. YMCO3 P . C . BOARD

| REF . NO . | PART NO . | DESCRIPTION |
|---|---|---|
| D4410 | 030-600048-00 | D LED GL4800 |
| TR4410 | 031-594800-00 | TR PHOTO PT4800 |
| J4410 | 060-405124-99 | SOCKET 006216005100 5P |
| J4411 | 060-405123-99 | SOCKET 006216005000 5P |
| W4410 | 077-622077-02 | WF2468 #26 P 2.0 CO9LO72P |
| W4412 | 063-555301-05 | WA SAN-PHL530 5P |

## 8. ACCESSARY

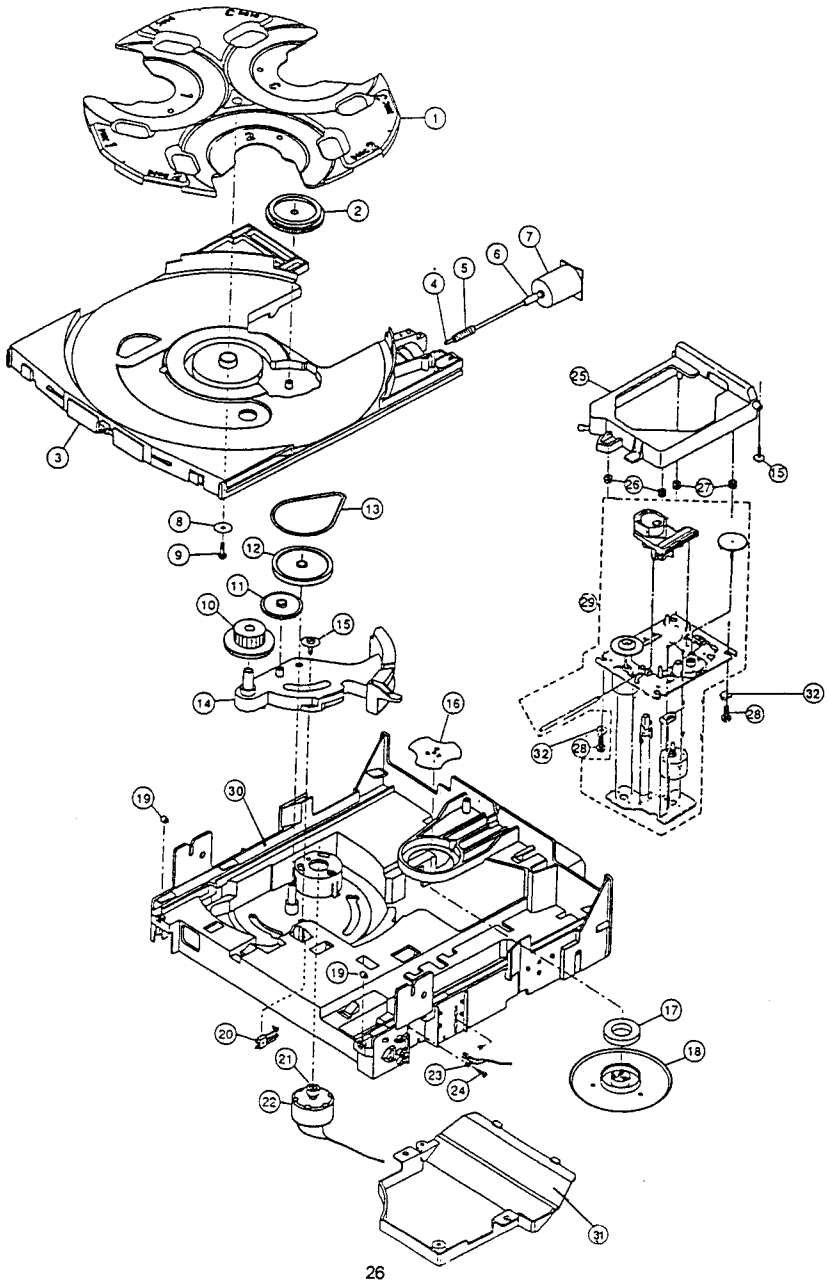
| REF. NO. | PART No. | DESCRIPTION |
|---|---|---|
| 1 | 790-010302-01 | REMOCON RC-S520 |
| 2 | 790-010302-02 | REMOCON RC-S720 |



## 9. CD MECHANISM

| REF. NO. | PARTS NO. | DESCRIPTION |
|---|---|---|
| 1 | 229-385602-01S | HOLDERDISC |
| 2 | 288-385601-01Z | GEAR WORMWHEEL TABLE |
| 3 | 220-385602-01S | TRAY LOADING |
| 4 | 438-385601-01 | SHAFT |
| 5 | 288-385604-01Z | WORM |
| 6 | 239-385601-01Z | JOINT |
| 7 | 743-037012-54 | MOTOR PF-370CA-15370 12V |
| 8 | 634-150030-08 | PW30X150X080 THK |
| 9 | 619-300208-00 | TAPING SCREW 3X1.25X8mm |
| 10 | 288-385605-01Z | GEAR LOADING (A) |
| 11 | 288-385606-01Z | GEAR LOADING(B) |
| 12 | 288-385602-01Z | PULLEY GEAR |
| 13 | 334-385604-01 | BELT LOADING |
| 14 | 288-385603-01S | HOLDER GEAR |
| 15 | 615-300308-00 | BW/T 3X8mm |
| 16 | 428-385603-01 | PLATE CLAMPER |
| 17 | 489-383801-01 | MAGNET DISC CLAMP |
| 18 | 229-385606-01S | CLAMPER |
| 19 | 259-385602-01Z | ROLLER |
| 20 | 047-102127-00 | LEAF SWITCH LSA-2127E |
| 21 | 243-385601-01Z | PULLEY |
| 22 | 743-050009-54 | MOTOR RF-500TB-14415 D/V |
| 23 | 047-101119-01 | LEAF SWITCH ISA-1119H |
| 24 | 610-260208-10 | R/T 2.6X8mm |
| 25 | 220-385601-01S | HOLDER TRAVERSE |
| 26 | 334-385606-01 | INSULATOR |
| 27 | 334-385606-01 | INSULATOR |
| 28 | 610-200216-00 | SELF-SCREW TAPING B/T 2.0X16 |
| 29 | 747-021301-02 | MECHA TRAVERSE KSM213CCM |
| 30 | 220-385603-01R | CHASSIS MAIN |
| 31 | 219-385601-01Z | CD MECH COVER |
| 32 | 634-100027-05 | METAL WASHER 10X2.7X0.5 |

CD MECHANISM BLOCK





**10. AC-520/523R/525K**

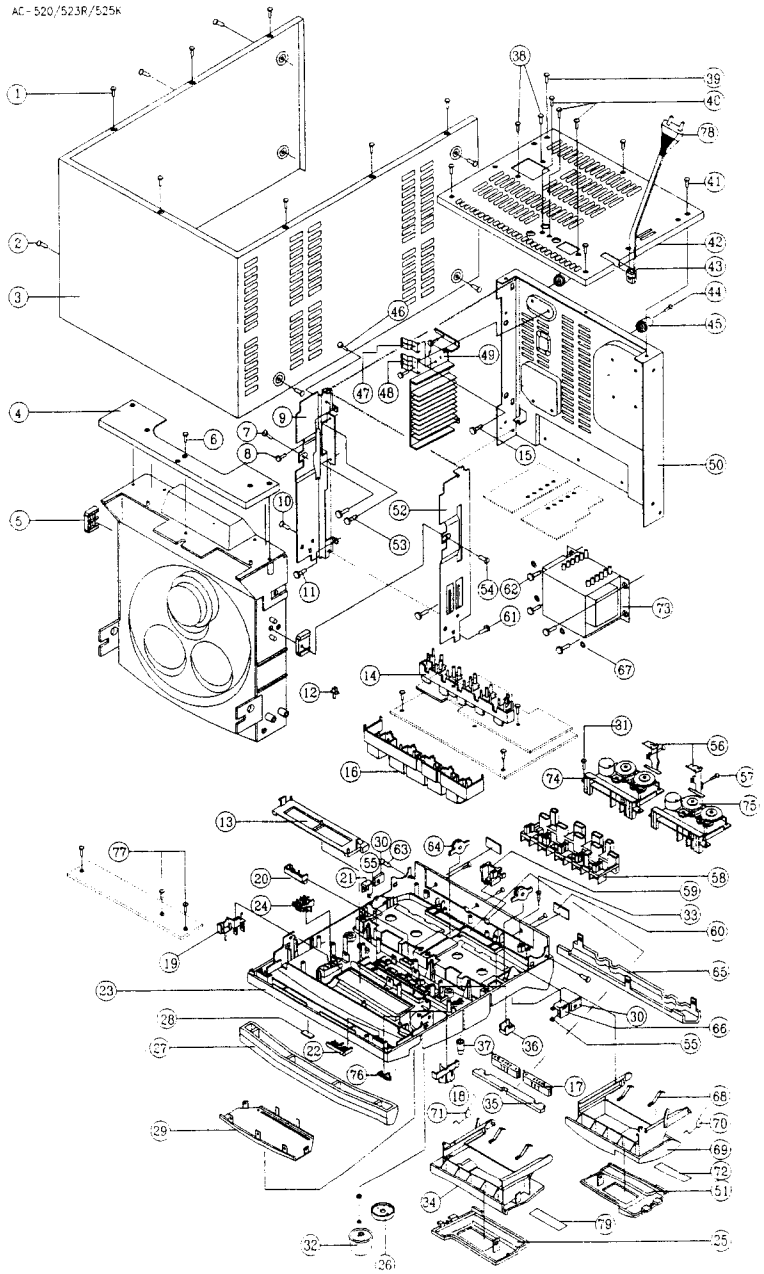
| REF. NO. | PARTS NO. | DESCRIPTION |
|---|---|---|
| 1 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 2 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 3 | 402-385002-02 | MAIN COVER SILVER |
| 4 | 495-385027-01 | REAR CABINET SUB |
| 5 | 284-385001-01R | MECH SPACER BLACK HI-PS |
| 6 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 7 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 8 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 9 | 428-385001-01 | CD BRACKET ' L ' |
| 10 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 11 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 12 | 292-AA0302-01S | DOLBY BUTON |
| 13 | 229-385011-01R | FLD BRACKET HI-PS |
| 14 | 291-AA0302-01S | FUNCTION BUTTON ABS |
| 15 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 16 | 291-AA0306-01Z | OP BUTTON (AC-420) |
| 17 | 250-AA0301-01S | LAMP HOLDER WHITE ABS |
| 18 | 292-AA0301-01S | REC BUTTON RED (P-96014) ABS |
| 19 | 291-AA0501-01S | CH BUTTON DARK GREY (P-92008) ABS |
| 20 | 291-AA0305-01S | POWER BUTTON DARK GREY (P-92008) W/MET GREY(T-96008HB) SP. SILK'S RED(S-88011) LETT. ABS |
| 21 | 229-AA0314-01Z | LATCH BRACKET (L) POM |
| 22 | 291-AA0301-01S | DISC BUTTON DARK GREY |
| 23-a(AC-520) | 200-AA0311-03R | FRONT CABINET HI-PS |
| 23-b(AC-523R) | 200-AA0311-04R | FRONT CABINET HI-PS |
| 23-c(AC-525K) | 200-AA0312-02R | FRONT CABINET HI-PS |
| 24 | 275-AA0301-01S | TIMER BUTTON DARK GREY (P-92008) ABS |
| 25 | 261-AA0301-01K | CASS DOOR LENS ( L ) SMOKE |
| 26 | 273-AA0302-01S | VOLUME RING DARK GREY (P-92008) W/PLATTING ABS |
| 27 | 219-AA0311-01R | CD DOOR HI-PS |
| 28 | 286-385001-02S | NAME PLATE ' AKAI ' |
| 29 | 263-AA0301-02K | DISPLAY LENS AS |
| 30 | 229-385016-01Z | LATCH BRACKET BLACK POM |
| 31 | 619-300210-00 | TAPPING SCREW P TYPE BID H 3X10MM BLACK |
| 32 | 273-AA0301-01S | VOLUME KNOB ABS |
| 33 | 619-300210-00 | TAPING SCREW P TYPE BID H 3X10MM BLACK |
| 34 | 211-AA0301-01S | CASS DOOR ( L ) HI-PS |
| 35 | 418-AA0301-01 | OVERLAY CLEAR SILK'S WHITE(S-96001) COLOR PVC |
| 36 | 291-AA0304-01S | BASS BUTTON MILKY WHITE (CL-301) ABS |
| 37 | 273-AA0303-01S | MIC KNOB DARK GRAY ABS |
| 38 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 39 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 40 | 614-300208-00 | SELF-TAPPING SCREW B/T 3X8MM BLACK |
| 41 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 42-a(AC-520 E/B) | 495-AA0301-04 | PANEL REAR |
| 42-b(AC-520 S) | 495-AA0301-05 | PANEL REAR |
| 42c(AC-523R(E) ) | 495-AA0301-06 | PANEL REAR |
| 42-d(AC-525K U5,Y6) | 495-AA0302-03 | PANEL REAR |
| 42-e(AC-525K U8,Y7) | 495-AA0302-04 | PANEL REAR |
| 43 | 650-381301-01 | CORD BUSHING |
| 44 | 619-300408-00 | TAPING SCREW B/T WASHER 3X8MM BLACK |
| 45 | 207-385101-01Z | REAR FOOT (PLASTIC) BLACK EVA |
| 46 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |

| | | |
|---|---|---|
| 47 | 428-385003-01 | HOLDER BRACKET SECC-E20 T=1 |
| 48 | 428-385101-01 | HOLDER BRACKET ( H ) |
| 49 | 481-385111-01 | HEAT SINK H-2 |
| 50 | 493-385112-01 | METAL BOTTOM CABINET (H) 1MM |
| 51 | 261-AA0302-01K | CASS DOOR LENS ( R ) SMOKE |
| 52 | 428-385002-01 | CD BRACKET 'R' |
| 53 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 54 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 55 | 477-385011-01 | LATCH PUSH SPRING |
| 56 | 483-AA0301-01 | SHIELD HEAD |
| 57 | 604-264501-00A | TAPPING SCREW C TYPE BID 2.6X5MM |
| 58 | 229-AA0312-01S | LID BRACKET TX-3 WHITE ABS |
| 59 | 229-AA0303-01S | BRACKET BLACK ABS |
| 60 | 330-385001-01 | FRONT CUSHION FOOT |
| 61 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 62 | 602-407008-60A | TAPPING SCREW P TYPE WASHER H 4X8MM |
| 63 | 619-300212-00 | TAPPING SCREW P TYPE BID H 3X12MM |
| 64 | 703-385002-01 | DAMPER DA-60W/W ( 105 ) ASSEMBLY |
| 65 | 263-AA0303-01K | DECK DIR LENS AS |
| 66 | 229-AA0315-01Z | LATCH BRACKET (R) POM |
| 67 | 663-076040-10S | SPRING WASHER 7.6X4X1MM THK SIL CMT |
| 68 | 470-AA0321-01 | CASS DOOR SPRING SHEET |
| 69 | 211-AA0302-01S | CASS DOOR ( R ) HI-PS |
| 70 | 471-AA0302-01 | CASS DOOR SPRING WIRE ( R ) |
| 71 | 471-AA0301-01 | CASS DOOR SPRING WIRE ( L ) |
| 72 | 211-AA0502-02S | CASS DOOR PALTE (R)-B BLACK |
| 73-a(AC-510/513R) | 001-863851-42 | ⚠ POWER TRANSFORMER C1048E |
| 73-b(AC-515K) | 001-863851-02 | ⚠ POWER TRANSFORMER C1048-U |
| 74 | 741-495300-09 | LOGICAL CONTROL DECK MECHA GT-E5300 (P/B) |
| 75 | 471-495600-09 | LOGICAL CONTROL DECK MECHA GT-E5600 (R/P) |
| 76. | 291-AA0303-01S | BALANCE BUTTON BLACK ABS |
| 77 | 619-300210-00 | TAPINET SCREW P TYPE BID H 3X10MM BLACK |
| 78-a(except B1,Y6,S1) | 071-669078-00A | ⚠ AC LINE CORD VDE |
| 78-b(B1,Y6) | 071-449078-20 | ⚠ AC LINE CORD BS |
| 78-c(S1) | 071-559078-10 | ⚠ AC LINE CORD SAA |
| 79 | 211-AA0501-02S | CASS DOOR PLATE (L) SILVER |



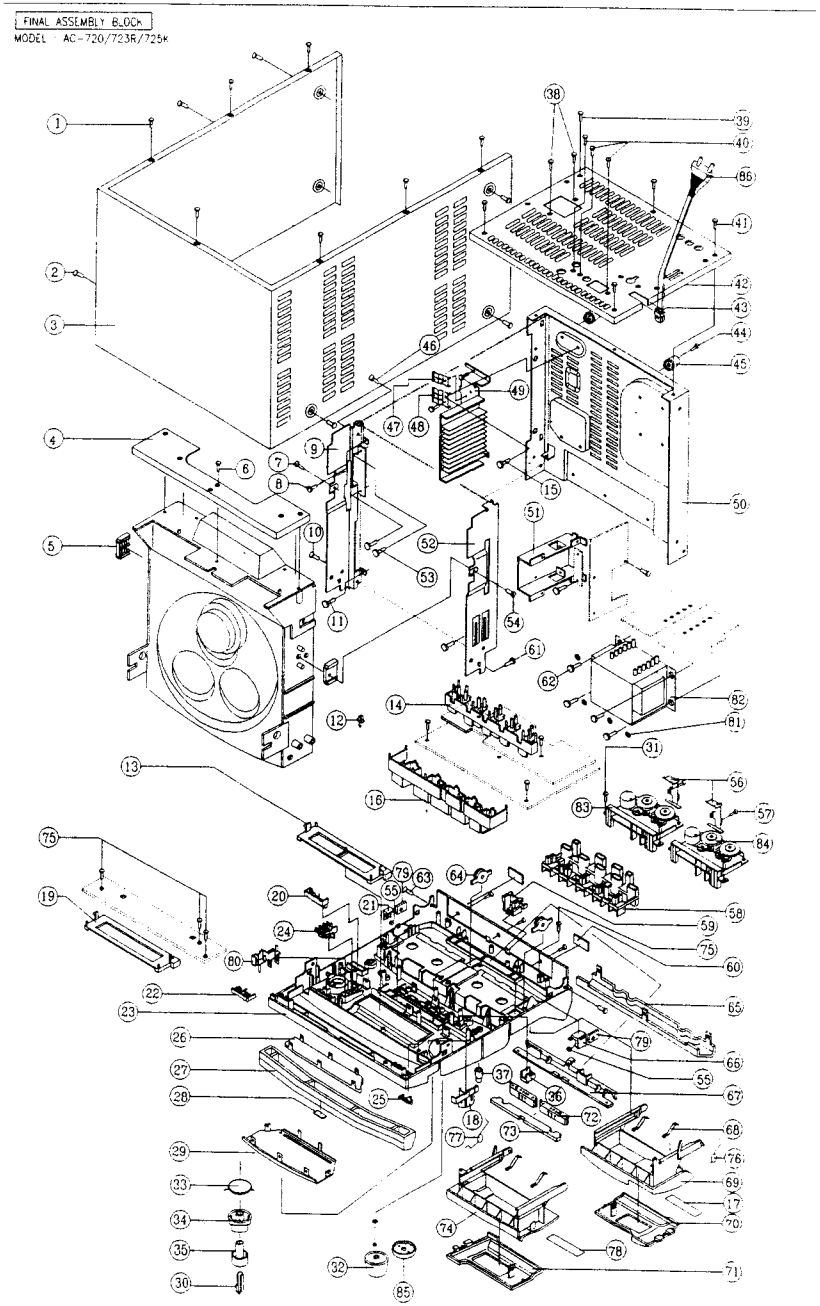
FINAL ASSEMBLY BLOCK

MODEL AC-520/523R/525K



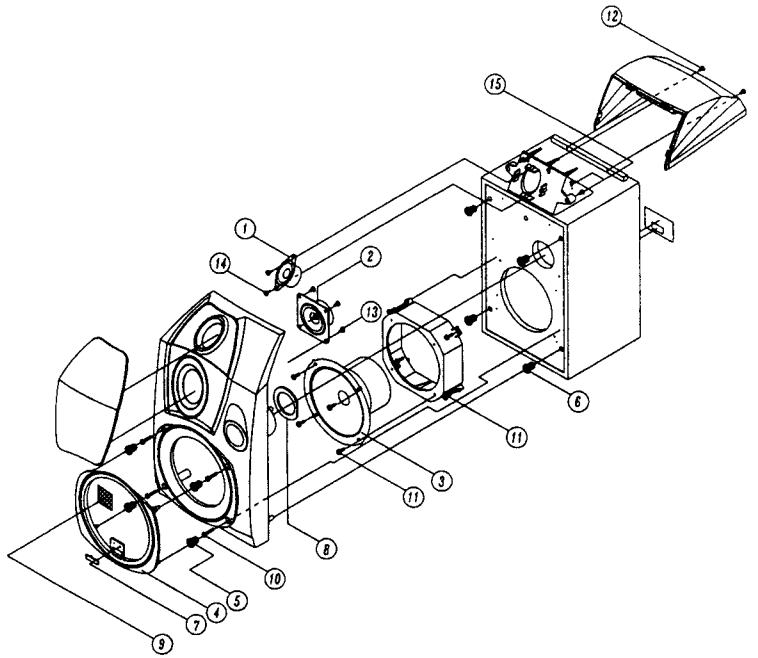
## 11. AC-720/723R/725K

| REF. NO. | PARTS NO. | DESCRIPTION |
|---|---|---|
| 1 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 2 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 3 | 402-385002-02 | MAIN COVER SILVER |
| 4 | 495-385027-01 | REAR CABINET SUB |
| 5 | 284-385001-01R | MECH SPACER BLACK HI-PS |
| 6 | 619-300208-00 | TAPING SCREW P TYPE BID H 3X8MM BLACK |
| 7 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 8 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 9 | 428-385001-01 | CD BRACKET 'L' |
| 10 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 11 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 12 | 292-AA0302-01S | DOLBY BUTTON |
| 13 | 229-385121-01R | FLD BRACKET HI-PS |
| 14 | 291-AA0302-01S | FUNCTION BUTTON ABS |
| 15 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 16 | 291-AA0306-01Z | OP BUTTON (AC-620) |
| 17 | 211-AA0502-01S | CASS DOOR PLATE (R) SILVER |
| 18 | 292-AA0301-01S | REC BUTTON RED (P-96014) ABS |
| 19 | 229-AA0501-01S | PRO LED BRACKET WHITE |
| 20 | 291-AA0305-01S | POWER BUTTON DARK GREY (P-92008) W/MET GREY(T-96008HB) SP SILK'S RED(S-88011) LETT. ABS |
| 21 | 229-AA0314-01Z | LATCH BRACKET (L) POM |
| 22 | 291-AA0301-01S | DISC BUTTON DARK GREY |
| 23-a(AC-720) | 200-AA0511-01R | FRONT CABINET HI-PS |
| 23-b(AC-723R) | 200-AA0511-02R | FRONT CABINET HI-PS |
| 23-c(AC-725K) | 200-AA0512-01R | FRONT CABINET HI-PS |
| 24 | 275-AA0301-01S | TIMER BUTTON DARK GREY ABS |
| 25 | 291-AA0303-01S | BALANCE BUTTON BLACK ABS |
| 26 | 263-AA0501-01K | PRO DISPLAY LENS WINE SMOKE 'P-95012' AS |
| 27 | 219-AA0311-01R | CD DOOR HI-PS |
| 28 | 286-385001-02S | NAME PLATE 'AKAI' |
| 29 | 263-AA0301-01K | DISPLAY LENS AS |
| 30 | 262-AA0601-01S | PRO BUTTON LEN SABS |
| 31 | 619-300210-00 | TAPPING SCREW P TYPE BID H 3X10MM BLACK |
| 32 | 273-AA0301-01S | VOLUME KNOB ABS |
| 33 | 477-385211-01 | PRO TORSION SPRING |
| 34 | 292-AA0601-01S | PRO LOGIC KNOB BLACK ABS |
| 35 | 292-AA0501-01S | ON/OFF BUTTON MILKY WHITE 'SAA' - 5409T' |
| 36 | 291-AA0304-01S | BASS BUTTON MILKY WHITE (CL-301) ABS |
| 37 | 273-AA0303-01S | MIC KNOB BLACK ABS |
| 38 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 39 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX8MM |
| 40 | 614-300208-00 | SELF-TAPPING SCREW B/T 3X8MM BLACK |
| 41 | 606A301208-00 | TAPING SCREW P TYPE BID H 3X1.25PX3MM |
| 42-a(AC-720 E/B) | 495-AA0303-01 | PANEL REAR |
| 42-b(AC-720 S) | 495-AA0303-02 | PANEL REAR |
| 42-c(AC-723R(E) ) | 495-AA0303-03 | PANEL REAR |
| 42-d(AC-725K U5,Y6) | 495-AA0304-01 | PANEL REAR |
| 42-e(AC-725K U8,Y7) | 495-385004-02 | PANEL REAR |
| 43 | 650-381301-01 | CORD BUSHING |
| 44 | 619-300408-00 | TAPING SCREW BT WASHER H 3X8MM BLACK |
| 45 | 207-385101-01Z | REAR FOOT ( PLASTIC ) BLACK EVA |
| 46 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 47 | 428-385003-01 | HOLDER BRACKET SECC-E20 T=1 |
| 48 | 428-385101-01 | HOLDER BRACKET ( H ) |
| 49 | 481-385111-01 | HEAT SINK ( H ) |
| 50 | 493-385112-01 | METAL BOTTOM CAB (H) 1MM |
| 51 | 481-385201-01 | HEAT SINK ( SUB ) |
| 52 | 428-385002-01 | CD BRACKET ' R' |
| 53 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 54 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 55 | 477-385011-01 | LATCH PUSH SPRING |
| 56 | 483-AA0301-01 | SHIELD HEAD |
| 57 | 604-264501-00A | TAPPING SCREW C TYPE BID H 2.6X5MM |
| 58 | 299-AA0312-01S | LID BRACKET TX-3 WHITE ABS |
| 59 | 229-AA0303-01S | LID BRACKET BLACK ABS |
| 60 | 330-385001-01 | FRONT CUSHION FOOT |
| 61 | 619-300208-00 | TAPPING SCREW P TYPE BID H 3X8MM BLACK |
| 62 | 602-407008-60A | TAPPING SCREW P TYPE WASHER H 4X8MM |
| 63 | 619-300212-00 | TAPING SCREW P TYPE BID H 3X12MM BLACK |
| 64 | 703-385002-01 | DAMPER DA-60W/W (105) ASSEMBLY |
| 65 | 263-AA0303-01K | DECK DIR LENS AS |
| 66 | 229-AA0315-01Z | LATCH BRACKET (R) POM |
| 67 | 263-AA0303-01K | DECK DIR BKT BLACK ABS |
| 68 | 470-AA0321-01 | CASS DOOR SPRING SHEET |
| 69 | 211-AA0302-01S | CASS DOOR ( R ) HI-PS |
| 70 | 261-AA0302-01K | CASS DOOR LENS ( R ) SMOKE |
| 71 | 261-AA0301-01K | CASS DOOR LENS ( L ) SMOKE |
| 72 | 250-AA0301-01S | LAMP HOLDER WHITE ABS |
| 73 | 418-AA0301-01 | OVERLAY CLEAR SILK'S WHITE(S-96001) COLOR PVC |
| 74 | 211-AA0301-01S | CASS DOOR ( L ) HI-PS |
| 75 | 619-300210-00 | TAPING SCREW P TYPE BID H 3X10MM BLACK |
| 76 | 471-AA0302-01 | CASS DOOR SPRING WIRE ( R ) |
| 77 | 471-AA0301-01 | CASS DOOR SPRING WIRE ( L ) |
| 78 | 211-AA0501-01S | CASS DOOR PLATE (L) SILVER |
| 79 | 229-385016-01Z | LATCH BRACKET BLACK POM |
| 80 | 291-AA0501-01S | CH BUTTON DARK GRAY (P-92008) ABS |
| 81 | 663-076040-10S | SPRING WASHER 7.6X4X1MM THK SIL CMT |
| 82-a(AC-720/723R) | 001-953852-42 | ⚠ POWER TRANSFORMER C1049-E |
| 82-b(AC-725K) | 001-953852-02 | ⚠ POWER TRANSFORMER C1049-U |
| 83 | 741-495300-09 | LOGICAL CONTROL DECK MECHA GT-E5300 (P/B) |
| 84 | 741-495600-09 | LOGICAL CONTROL DECK MECHA GT-E5600 (R/P) |
| 85 | 273-AA0302-01S | VOLUME RING DARK GREY (P-92008) W/PLATTING ABS |
| 86-a(except B1,Y6,S1) | 071-669078-00A | ⚠ AC LINE CORD VDE |
| 86-b(B1,Y6) | 071-449078-20 | ⚠ AC LINE CORD BS |
| 86-c(S1) | 071-559078-10 | ⚠ AC LINE CORD SAA |

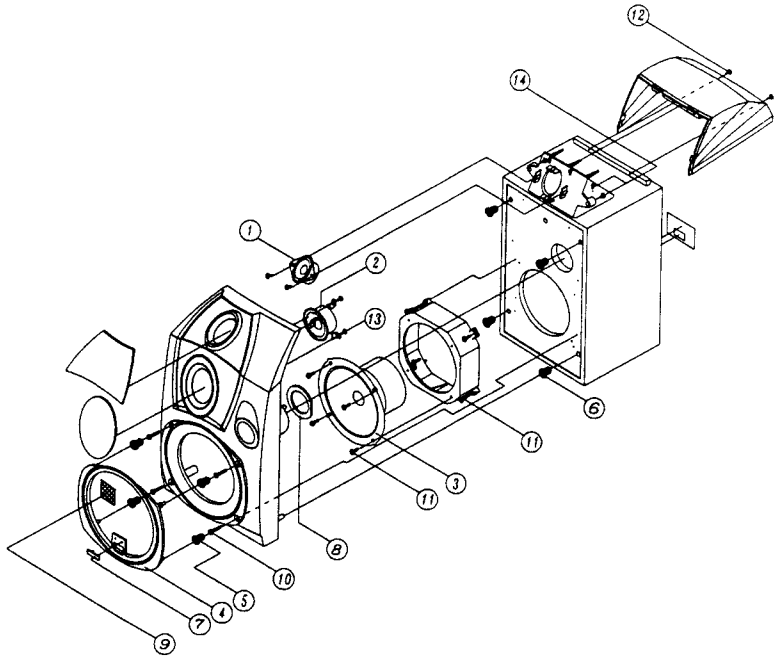





## 12. SPEAKER SYSTEM (SR-525)



| REF. NO | PART NO | DESCRIPTION |
|---|---|---|
| 1 | 066-278220-KP | SPEAKER 2" 12Ω 40-120W |
| 2 | 066-278221-WTZ | SPEAKER 2 1/2" 8Ω 40-120W |
| 3 | 066-958254-STZ | SPEAKER 2 1/2" 8Ω 80-120W |
| 4 | 239-051701-01R | ADAPTOR HI-PS |
| 5 | 259-050201-01Z | CUSHION FOR SPEAKER BOX BLK S.B.R |
| 6 | 259-381301-01 | CUSHION FOR SPEAKER BOX BLK RUBBER |
| 7 | 286-385002-02S | NAME PLATE FOR AKAI SPK BLK ABS |
| 8 | 323-051601-01 | SPONG SPACER |
| 9 | 583-051601-01F | CLOTH NET |
| 10 | 610-350220-10 | SELF-TAPPING SCREW R/T 3.5X20MM WHITE |
| 11 | 610-400216-30 | SELF-TAPPING SCREW R/T 4.0X16MM WHITE |
| 12 | 610-300214-30 | SELF-TAPPING SCREW R/T 3.0X14MM WHITE |
| 13 | 612-300206-10 | SELF-TAPPING SCREW 3X6MM WHITE |
| 14 | 612-300208-10 | SELF-TAPPING SCREW 3X8MM WHITE |
| 15 | 612-300214-10 | SELF-TAPPING SCREW 3X14MM WHITE |



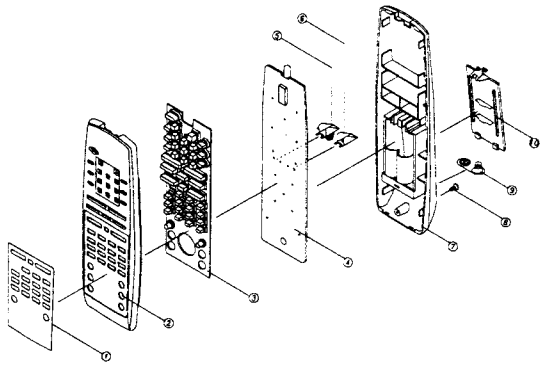

| REF. NO | PART NO | DESCRIPTION |
|---|---|---|
| 1 | 066-288220-KP | TWEETER 50MM |
| 2 | 066-288221-KP | MIDRANGE SPEAKER 65MM |
| 3 | 066-959054-STZ | WOOFER SPEAKER 135MM |
| 4 | 239-051701-01R | ADAPTOR HI-PS |
| 5 | 259-050201-01Z | CUSHION FOR SPEAKER BOX BLK S.B.R |
| 6 | 259-381301-01 | CUSHION FOR SPEAKER BOX BLK RUBBER |
| 7 | 286-385002-02S | NAME PLATE FOR AKAI SPK BLK ABS |
| 8 | 323-051601-01 | SPONG SPACER |
| 9 | 583-051601-01F | CLOTH NET |
| 10 | 610-350220-10 | SELF-TAPPING SCREW R/T 3.5X20MM WHITE |
| 11 | 610-400216-30 | SELF-TAPPING SCREW R/T 4.0X16MM WHITE |
| 12 | 610-300210-10 | SELF-TAPPING SCREW R/T 3.0X10MM WHITE |
| 13 | 612-300208-10 | SELF-TAPPING SCREW 3X8MM WHITE |
| 14 | 612-300210-10 | SELF-TAPPING SCREW 3X10MM WHITE |



## 14. REMOTE EXPLODED DIAGRAM AND PARTS LIST

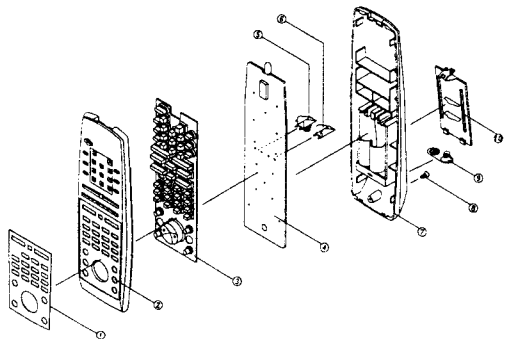
RC-S520

| REF. NO | PART NO | DESCRIPTION |
|---|---|---|
| * | 790-010301-01 | REMOTE CONTROL HANDSET RC-S520 |
| 1 | 411-010301-01 | REMOTE NAME PLATE |
| 2 | 201-010302-01S | REMOTE CAB TOP |
| 3 | 334-010311-01 | REMOTE CONTATIVE RUBBER (46 KEYS) |
| 4 | 090-010302-03 | PCB REMOTE BOARD |
| 5 | 473-010311-01 | BATT CONTACT SPRING SHEET-VE |
| 6 | 472-010311-01 | BAT CONTACT PLATE +VE |
| 7 | 203-010311-01S | REMOTE CABINET BOTTOM |
| 8 | 610-260206-10 | SELF-TAPPING SCREW K/T 2.6X6 |
| 9 | 474-010101-01 | BAT CONTACT SPRING WIRE +/-VE |
| 10 | 210-010301-01S | REMOTE BATTERY COVER |



RC-S720

| REF. NO | PART NO | DESCRIPTION |
|---|---|---|
| * | 790-010302-01 | REMOTE CONTROL HANDSET RC-S720 |
| 1 | 411-010302-01 | REMOTE NAME PLATE |
| 2 | 201-010301-02S | REMOTE CAB TOP |
| 3 | 334-010312-01 | REMOTE CONTATIVE RUBBER (46 KEYS) |
| 4 | 090-010302-03 | PCB REMOTE BOARD |
| 5 | 473-010311-01 | BATT CONTACT SPRING SHEET-VE |
| 6 | 472-010311-01 | BAT CONTACT PLATE +VE |
| 7 | 203-010311-01S | REMOTE CABINET BOTTOM |
| 8 | 610-260206-10 | SELF-TAPPING SCREW K/T 2.6X6 |
| 9 | 474-010101-01 | BAT CONTACT SPRING WIRE +/-VE |
| 10 | 210-010301-01S | REMOTE BATTERY COVER |



# XII. ABBREVIATIONS

## TUNER

| ABBREVIATION | EXPLANATION | ABBREVIATION | EXPLANATION |
|---|---|---|---|
| AFC | Auto Frequency Control | MEMO | MEMOry |
| AGC | Auto Gain Control | MI-COM | MIcro-COMputer |
| ALC | Auto Level Control | MIN | MINimum |
| AM | Amplitude Modulation | MIX | MIXing |
| AMP | AMPlifier | MPX | MultiPleX |
| ANT | ANTenna | MW | Medium Wave(frequency) |
| BATT | BATTery | NC | No Connection |
| BLK | BLocK | NFB | Negative Feed Back |
| BUFF | BuFFer | OSC | OSCillator |
| COMP | COMParator | PCB | Printed Circuit Board |
| DET | DETect(DETector) | PLL | Phase Locked Loop |
| FLD | FLuorescent Display | Q.D | Quadrature Detector |
| FM | Frequency Modulation | Rch | Right channel |
| FREQ | FREQuency | REF | REFerence |
| GND | GrouND | REG | REGulator |
| H | High | RF | Radio Frequency |
| HPF | High Pass Filter | SEG | SEGment |
| IF | Intermediate Frequency | SELE | SELEctor |
| IHF | Institute of High Fidelity | SENS | SENSitivity |
| IND | INDicator | SIG | SIGnal |
| I/O | In/Out | S/N | Signal to Noise Ratio |
| JW | Jumper Wire | SSG | Standard Signal Generator |
| L | Low | STD | STanDard |
| LCD | Liquid Crystal Display | SW | Switch: Short Wave(frequency) |
| LCH | Left CHannel | THD | Total Harmonic Distortion |
| LED | Light Emitting Diode | TP | Test Point |
| LPF | Low Pass Filter | VCO | Voltage Controlled Oscillator |
| LW | Long Wave (Frequency) | VR | Variable Resistor |
| XTAL | Crystal | | |

## COMPACT DISC

| ABBREVIATION | EXPLANATION | ABBREVIATION | EXPLANATION |
|---|---|---|---|
| A-D | Analog to Digital(Converter) | Mb | Mega Bits |
| ADC | Analog Code Decimal (Converter) | MDA | Motor Drive Amplifier |
| BCD | Binary Code Decimal | MFM | Modified Frequency Modulation |
| BPI | Bits Per Inch | MW | Mono-stable Multivibrator |
| CD | Compact Disc | M2FM | Modified Modified Frequency Modulation |
| CIRC | Cross Interleaving & Reed | MOD2 | Module 2 (Addition) |
| | Solomon Coding | MP | Microprocessor |
| CLV | Constant Linear Velocity | MSB | Most Significant Bit |
| CP | Clock Pulses | NA | Numerical Aperture |
| CRCC | Cyclic Redundancy Check Codes | NRZ | Non Return to Zero |
| D Level | Decision Level | NRZ-I | Non Return to Zero Inverted |
| D-A | Digital to Analog(Converter) | P | Parity Data |
| DAC | Digital to Analog(Converter) | PAM | Pulse Amplitude Modulation |
| DAD | Digital Audio Disc | PCM | Pulse Code Modulation |
| DEM | Dynamic Element Matching | PD | Phase Detector |
| DPD | Differential Phase Detection | PE | Phase Encode |
| DSV | Digital sum Value | PLL | Phase locked Loop |
| EFM | Eight to Fourteen Modulation | PNM | Pulse Number Modulation |
| EX-OR | Exclusive OR | PPM | Pulse Phase Modulation |
| FCI | Flux Changes per Inch | PWM | Pulse Width Modulation |
| FIR | Finite Impulse Response | Q | Parity Data |
| FP | Front Pulse | R,R1,R2,ect. | Data for Right Channel |
| FPG | Front Pulse Gate | RAM | Random Access Memory |
| F | Frequency of Sampling | RPG | Rear Pulse Gate |
| GF | Galois Field | SCOOP | Self Coupled Optical Pick-up |
| H&V(Parity) | Horizontal & Vertical | S&H | Sample & Hold |
| IIR | Infinite Impulse Response | S/N | Signal to Noise Ratio |
| KB | Kilo Bits | SSG | Standard Signal Generator |
| L,L1,L2,ect. | Data for Left Channel | SYSCON | SYStem CONtrol |
| LPF | Low Pass Filter | | |
| LSB | Least Significant Bit | | |

## CASSETTE

| ABBREVIATION | EXPLANATION | ABBREVIATION | EXPLANATION |
|---|---|---|---|
| AC | Alternating Current | MIN | Minute |
| A/D | Analog/Digital | MML | Maximum Modulation Level |
| AF | Auto Fader | MOL | Maximum Output Level |
| AMP | AMPlifier | MPX | MultiPlex |
| AR | Anti Recording | NC | Not connected (No Connection) |
| AT BIAS | Auto Turning BIAS | NFB | Negative Feed Back |
| ATT | ATTenuator | NORM | NORMal |
| BAL | BALance | NR | Noise Reduction |
| BEFB | and Elimination Filter | OSC | OSCillator (OSCillation) |
| BSS | Blank Search System | P | Pulse |
| CAPM | CAPstan Motor | PB | Play Back |
| CH | CHannel | QMSS | Quick Memory Search System |
| COMP | COMParator | OR | Quick Reverse |
| CONT | CONTinuance | RCH | Right CHannel |
| CRLP | Computer Recording Level Processing | REC | RECord (RECording) |
| CS | Chip Select | REV | REVerse |
| D/A | Digital/Analog | ROT | ROTation |
| DC | Direct Current | REW | REWind |
| DET | DETector | SEC | SECond |
| DISCRI | DISCRIminator | SELE | SELEctor |
| DUB | DUBbing | SENS | SENSitivity |
| EQ | EQualizer | SEPP | Single Ended Push Pull |
| FF or (F.FWD) | Fast Forward | SIG | SIGnal |
| FLD | FLuorescent Display | SPECT | SPECTrum |
| FREQ | FREQuency | STD | STanDard |
| FWD | ForWarD | SW | SWitch |
| GND | GrouND | SYSCON | SYStem CONtrol |
| H | High | TP | TEST Point |
| HPF | High Pass Filter | TRIG | TRIGa |
| IND | INDicator | VCA | Voltage Control Attenuator |
| IPLS | Instant Program Location System | VOL | Volume |
| L | Low | VOLT | VOLTage |
| LCH | Left Channel | VR | Variable Resistor |
| LEDLight | Emitting Diode | XTAL | crysTAL |
| MEMO | MEMOry | X1 | Normal speed |
| MICOM | MIcroCOMputer | X2 | Double speed |



## AMPLIFIER

| ABBREVIATION | EXPLANATION |
|---|---|
| A | Analog |
| AC | Alternating Current |
| AMP | AMPlifier |
| CD | Compact Disc |
| COM | COMmon |
| D | Digital |
| D/A | Digital to Analog |
| DAC | Digital to Analog Converter |
| DAT | Digital Audio Tape recorder |
| DC | Direct Current |
| GND | GrouNd |
| L | Left |
| LED | Light Emitting Diode |
| MC | Moving Coil |
| MM | Moving Magnet |
| PCB | Printed Circuit Board |
| R | Right |
| REG | REGulator |
| REC | RECord |
| TR | TRansistor |
| SW | SWitch |
| V.AMP | Voltage AMPlifier |
| V.DISC | Video DISC |
| VR | Variable Resistance |
| VTR | Video Tape Recorder |

# AKAI

## MODEL AC-520, 523R, 525K
## MODEL AC-720, 723R, 725K

## SCHEMATIC DIAGRAMS
## AND PC BOARDS

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3. TUNER & TAPE DECK ..... 5

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4. SYSCON/MECHA. DRIVE ..... 12
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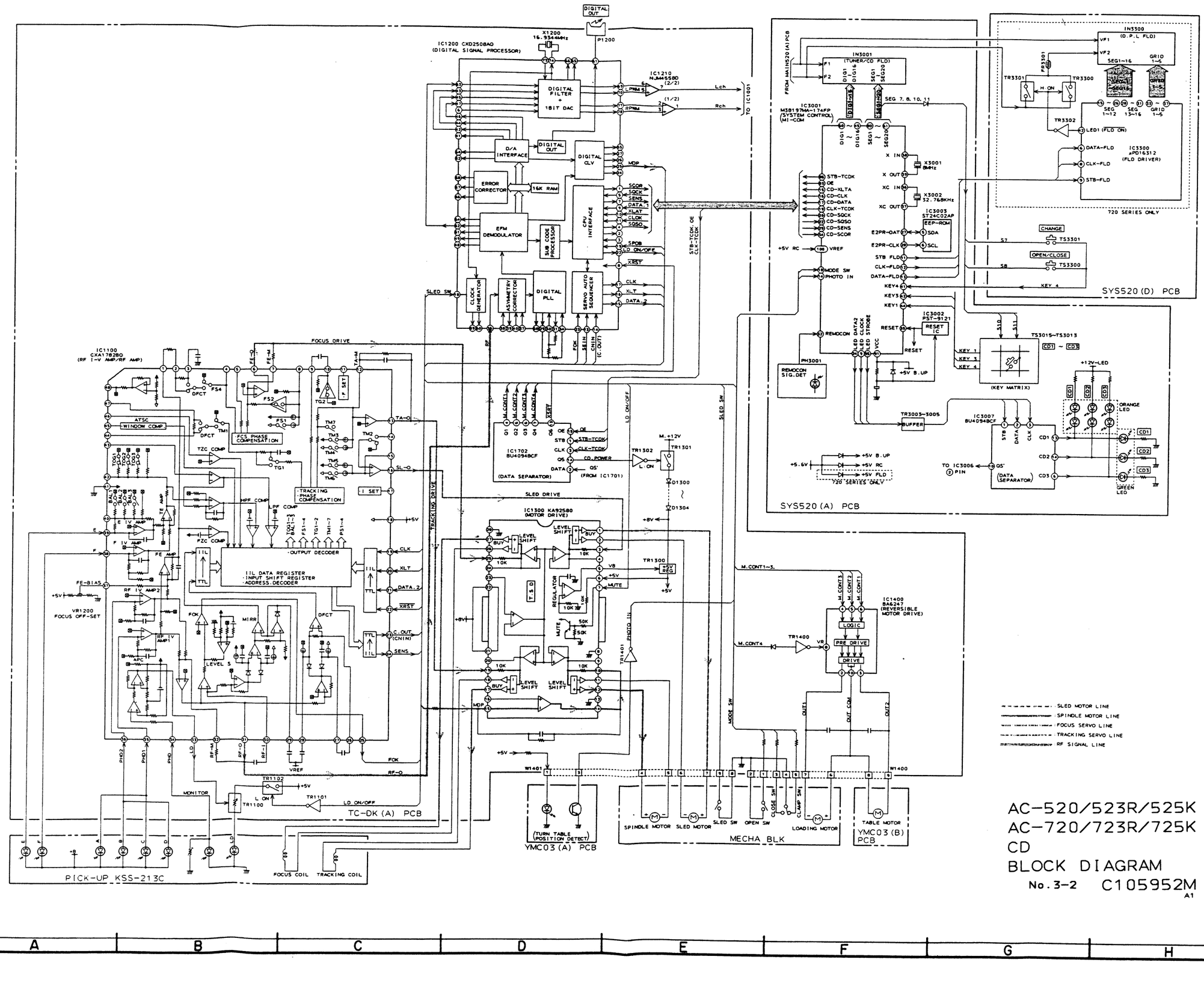
Use these schematic diagrams and PC boards together with the provided service

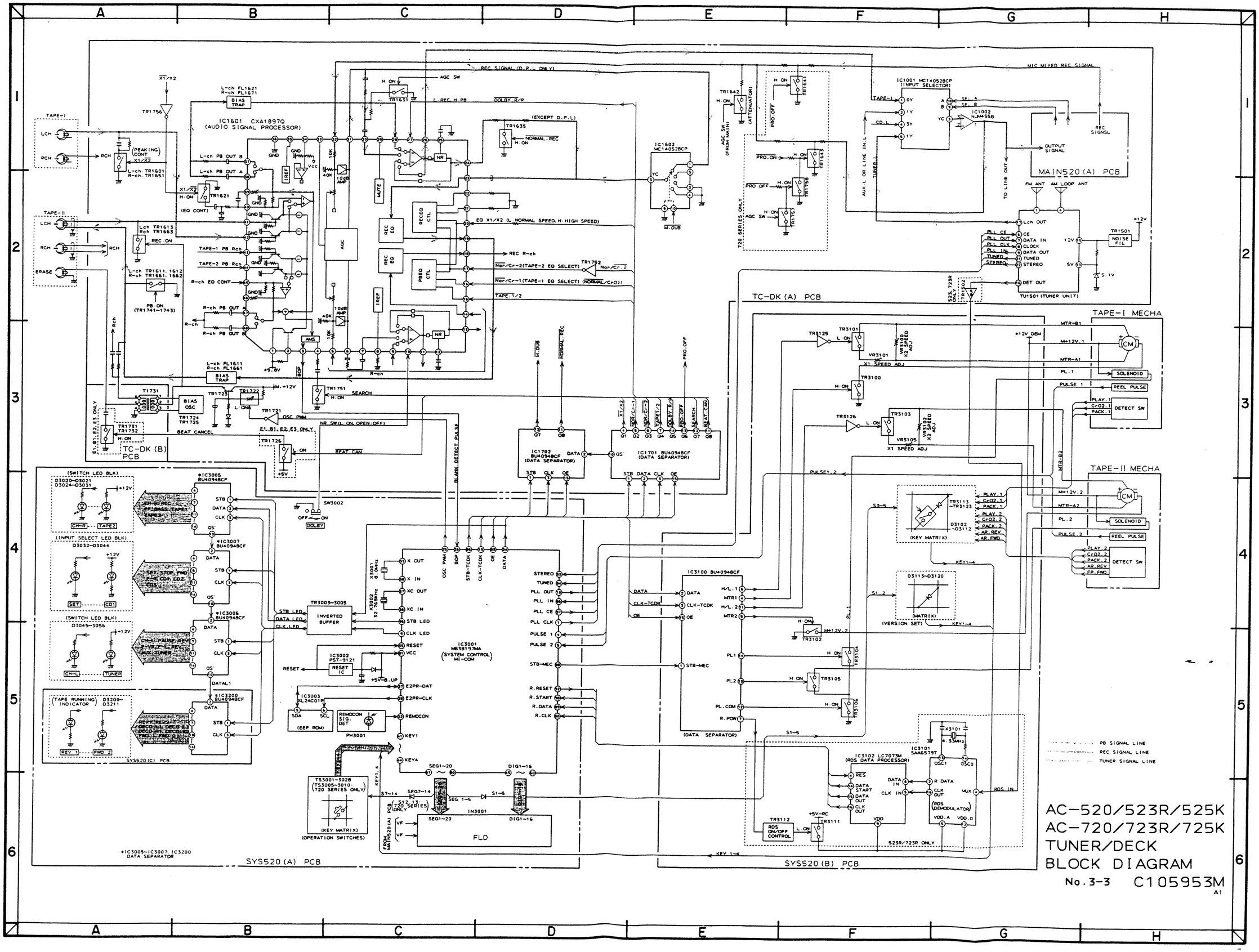
AC-520/523R/525K
AC-720/723R/725K
MAIN
SCHEMATIC DIAGRAM
No.5-2 C105902M
A0

I-01218 (Druck1

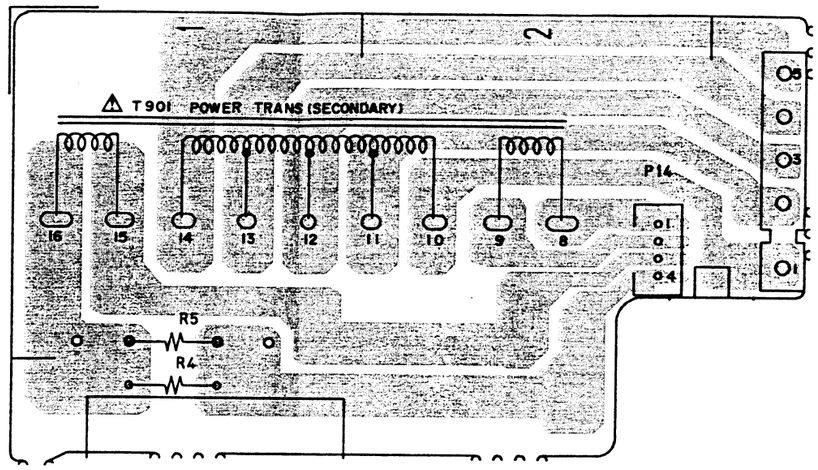



# AC-520/523R/525K
# AC-720/723R/725K
# CD
# BLOCK DIAGRAM

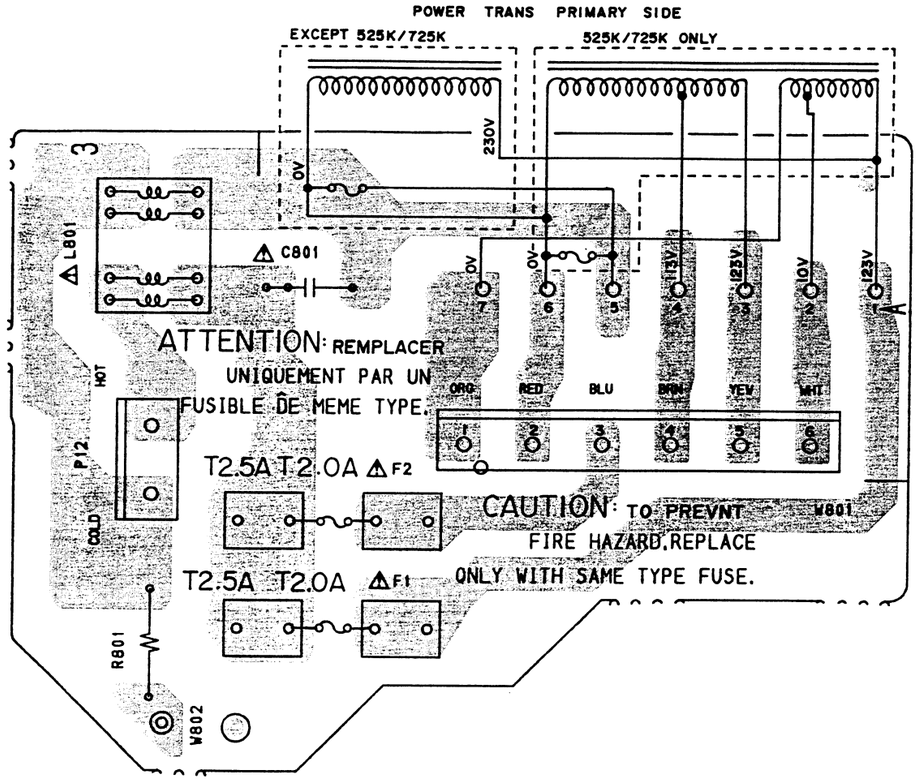
No. 3-2 C105952M
A1




01248 / Druck3




MAIN520(C) PCB C1059A501C




MAIN520(B) PCB C1059A501B

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

**NOTE:** PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

SYS520 (D) PCB
(CD OPERATION)
C1059A503D

SYS520 (E) PCB
(MIC JACK)
C1059A503E

SYS520 (C) PCB
(TAPE LED)
C1059A503C

SYS520 (A) PCB
(SYS FLD)
C1059A503A

SYS520 (B) PCB
(MECHA CONTROL)
C1059A503B

TAPE I

TAPE II

PB HEAD

REC/PB HEAD

ERASE HEAD

520 SERIES

720 SERIES

720 SERIES ONLY

TC-DK (B) PCB
(OSC)
C1058A502B

TC-DK420 (C) PCB (RELAY)

YMC03 (B) PCB
(MOTOR)
C1047A505A

YMC03 (A) PCB
(SENSOR)
C1047A505A

YMC03 (C) PCB
(RELAY)
C1047A505C

PICK-UP

| | F1 | F2 | POWER TRANSFORMER |
|---|---|---|---|
| 520<br>523R | T2.0A | - | C1048E, C1059E |
| 525K | T2.0A | T2.0A | C1048U, C1059U |
| 720<br>723R | T2.5A | - | C1049E, C1061E |
| 725K | T2.5A | T2.5A | C1049U, C1061U |

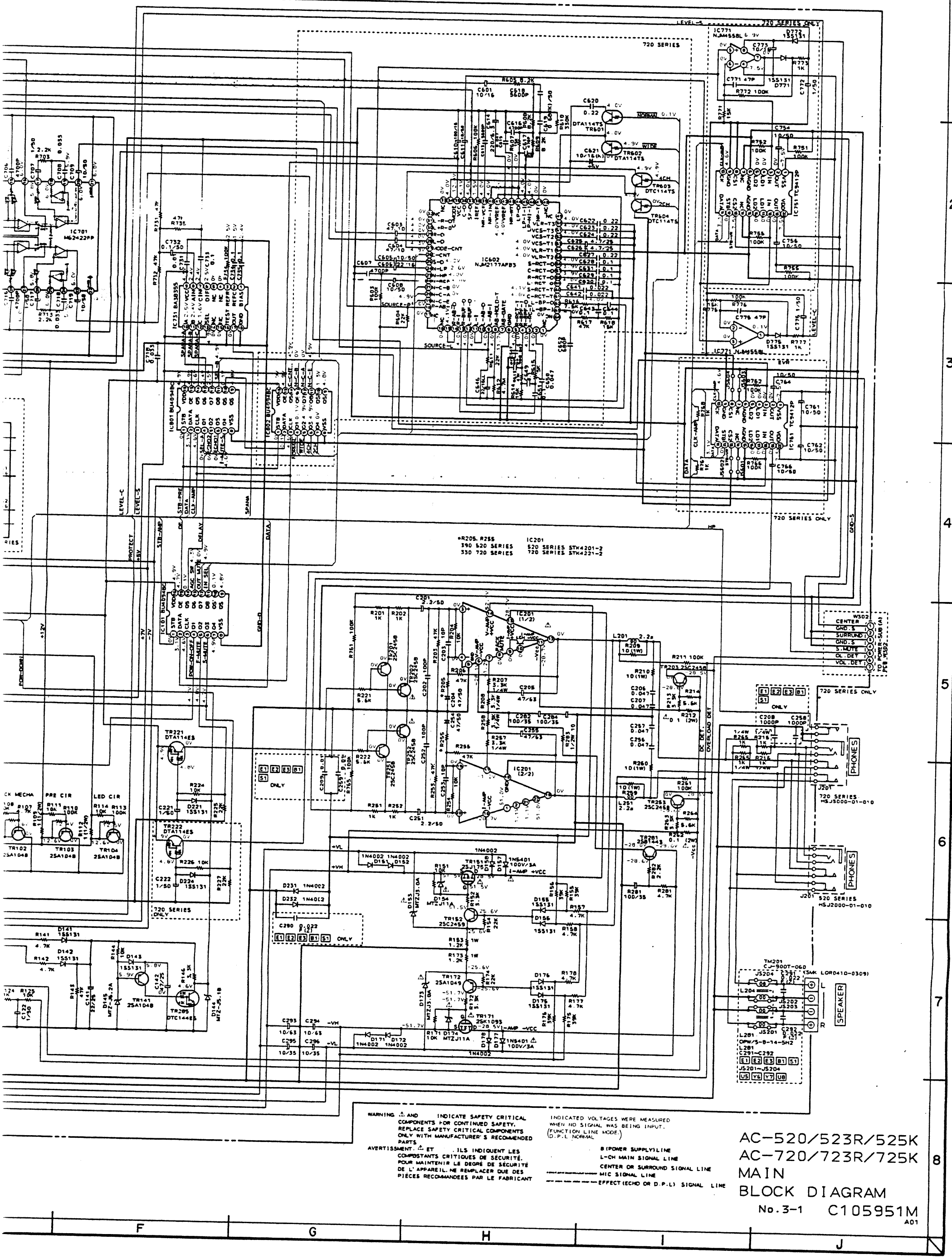
WARNING: ⚠ AND ⚠ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ⚠ . ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SECURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

# AC-520/523R/525K
# AC-720/723R/725K
# CONNECTION DIAGRAM

No.5-1 C105901M
A1

TO TC-DK420(A) PCB W1006
TO TC-DK420(A) PCB W1021
P6
P21
720 723R 725K
525K
C507 0.1 0.22
C508 0.1 0.22
C513 470P 1500P
JS702
520 SERIES ONLY
JS701
520 SERIES ONLY
EXCEPT 520, 525K
525K, 725K ONLY
EXCEPT 525K
IC701 M62422FP
EVR
MTZ-J6.2A D751
MTZ-J6.2A D752
MTZ-J6.2A D753
520 SERIES ONLY
525K ONLY
725K ONLY
IC581 NJM4558L
C582 10/16
TO SYS520(A) PCB P3011
J11 TKC-V22X-A1 (520 SERIES ONLY)
J11A TKC-V24X-A1 (720 SERIES ONLY)
C86 100/35
CD MECHA
DECK MECHA
PRE CIR
LED CIR
TR101 2SA1048
TR102 2SA1048
TR103 2SA1048
TR104 2SA1048
PROTECT DET.
TO MAIN520(C) PCB P14
TO MAIN520(C) PCB P902
TO POWER-SUB(A) PCB P2301
720 SERIES ONLY
RL1, RL2 OSA-SS-212DM5 TV-3
MAIN520(A) PCB C1059501A




WARNING ⚠ AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

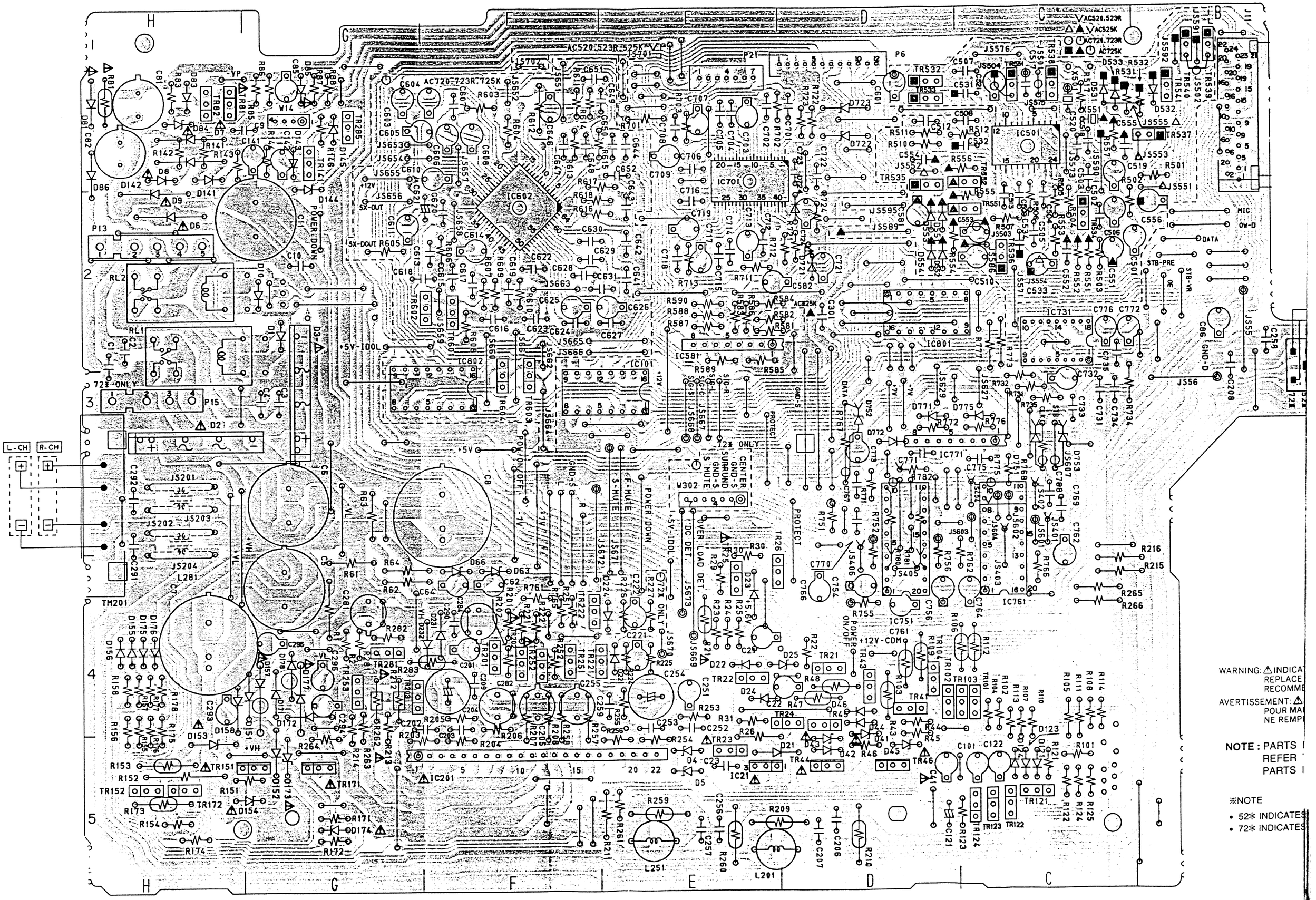
AVERTISSMENT. ⚠ ET ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT. (FUNCTION LINE MODE. D.P.L NORMAL)

B (POWER SUPPLY) LINE
L-CH MAIN SIGNAL LINE
CENTER OR SURROUND SIGNAL LINE
MIC SIGNAL LINE
EFFECT (ECHO OR D.P.L) SIGNAL LINE

# AC-520/523R/525K
# AC-720/723R/725K
# MAIN
# BLOCK DIAGRAM

No.3-1 C105951M
A01



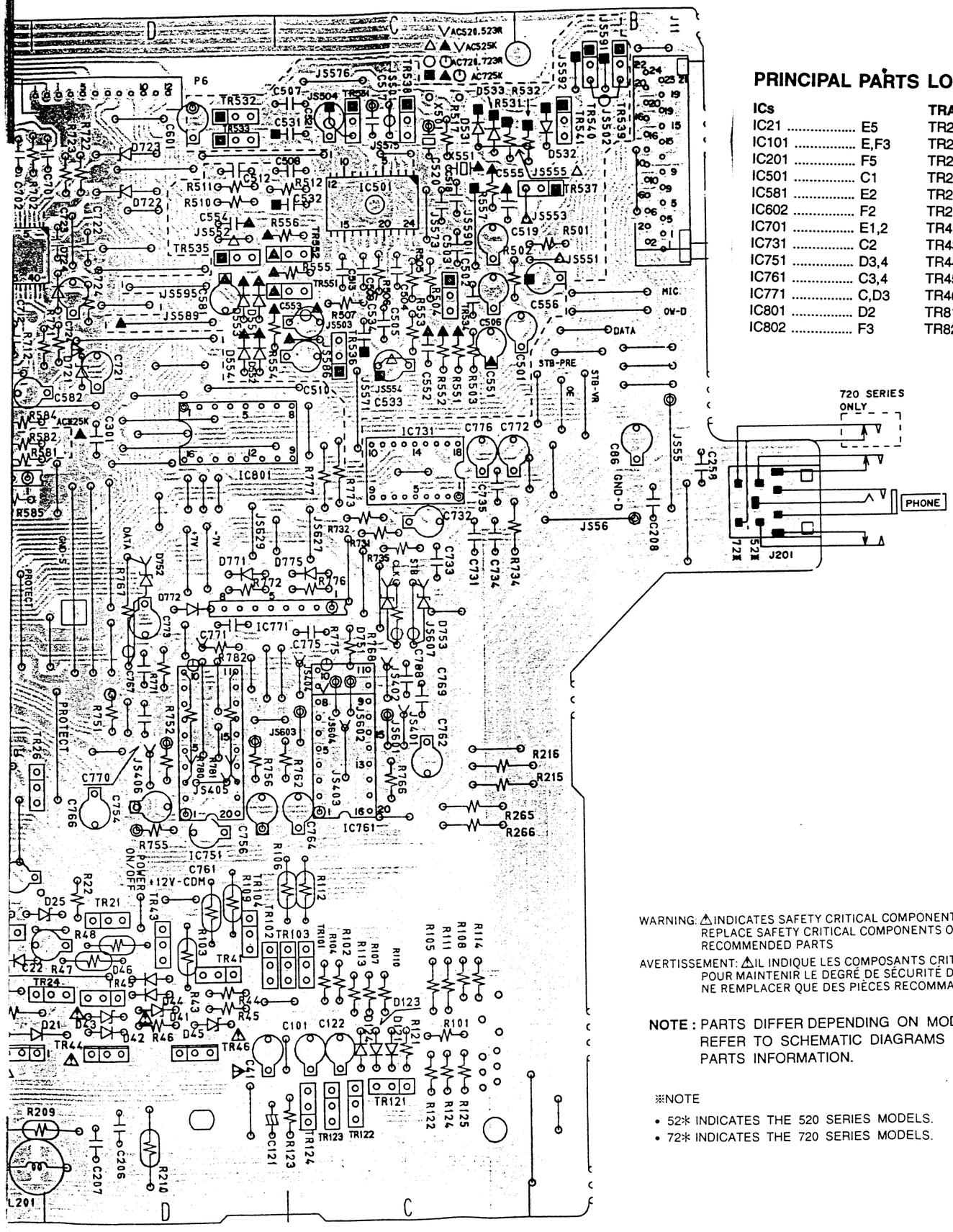

MAIN520(A) PCB C1059A501A

WARNING: ⚠INDICA
REPLACE
RECOMME
AVERTISSEMENT: ⚠
POUR MA
NE REMPL

NOTE : PARTS
REFER
PARTS

※NOTE

- 52* INDICATES
- 72* INDICATES




## PRINCIPAL PARTS LOCATION

**ICs**

| | |
|---|---|
| IC21 | E5 |
| IC101 | E,F3 |
| IC201 | F5 |
| IC501 | C1 |
| IC581 | E2 |
| IC602 | F2 |
| IC701 | E1,2 |
| IC731 | C2 |
| IC751 | D3,4 |
| IC761 | C3,4 |
| IC771 | C,D3 |
| IC801 | D2 |
| IC802 | F3 |

**TRANSISTORs**

| | |
|---|---|
| TR21 | D4 |
| TR22 | E4 |
| TR23 | E5 |
| TR24 | D,E4 |
| TR25 | E4 |
| TR26 | D,E4 |
| TR41 | D4 |
| TR43 | D4 |
| TR44 | D5 |
| TR45 | D4 |
| TR46 | D5 |
| TR81 | H1 |
| TR82 | H1 |
| TR101 | C4 |
| TR102 | D4 |
| TR103 | C,D4 |
| TR104 | D4 |
| TR121 | C5 |
| TR122 | C5 |
| TR123 | C5 |
| TR124 | C5 |
| TR141 | G1 |
| TR151 | G,H5 |
| TR152 | H5 |
| TR171 | G5 |
| TR172 | H5 |
| TR201 | F4 |
| TR202 | F4 |
| TR203 | G4 |
| TR221 | E,F4 |
| TR222 | F4 |
| TR251 | F4 |
| TR252 | F4 |
| TR253 | G4 |
| TR281 | G4 |
| TR285 | G1 |
| TR531 | C1 |
| TR532 | D1 |
| TR533 | D1 |
| TR534 | C2 |
| TR535 | D1,2 |
| TR536 | C2 |
| TR537 | B1 |
| TR538 | C1 |
| TR539 | B1 |
| TR540 | B1 |
| TR541 | B1 |
| TR551 | C2 |
| TR552 | C1 |
| TR601 | F2 |
| TR602 | F2 |
| TR603 | F2,3 |
| TR604 | F2,3 |

**CONNECTORs**

| | |
|---|---|
| J11 | B1 |
| J201 | B2,3 |
| P6 | D1 |
| P13 | H2 |
| P15 | H3 |
| P21 | E1 |

**WIREs**

| | |
|---|---|
| W14 | G1 |
| W302 | E3 |

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

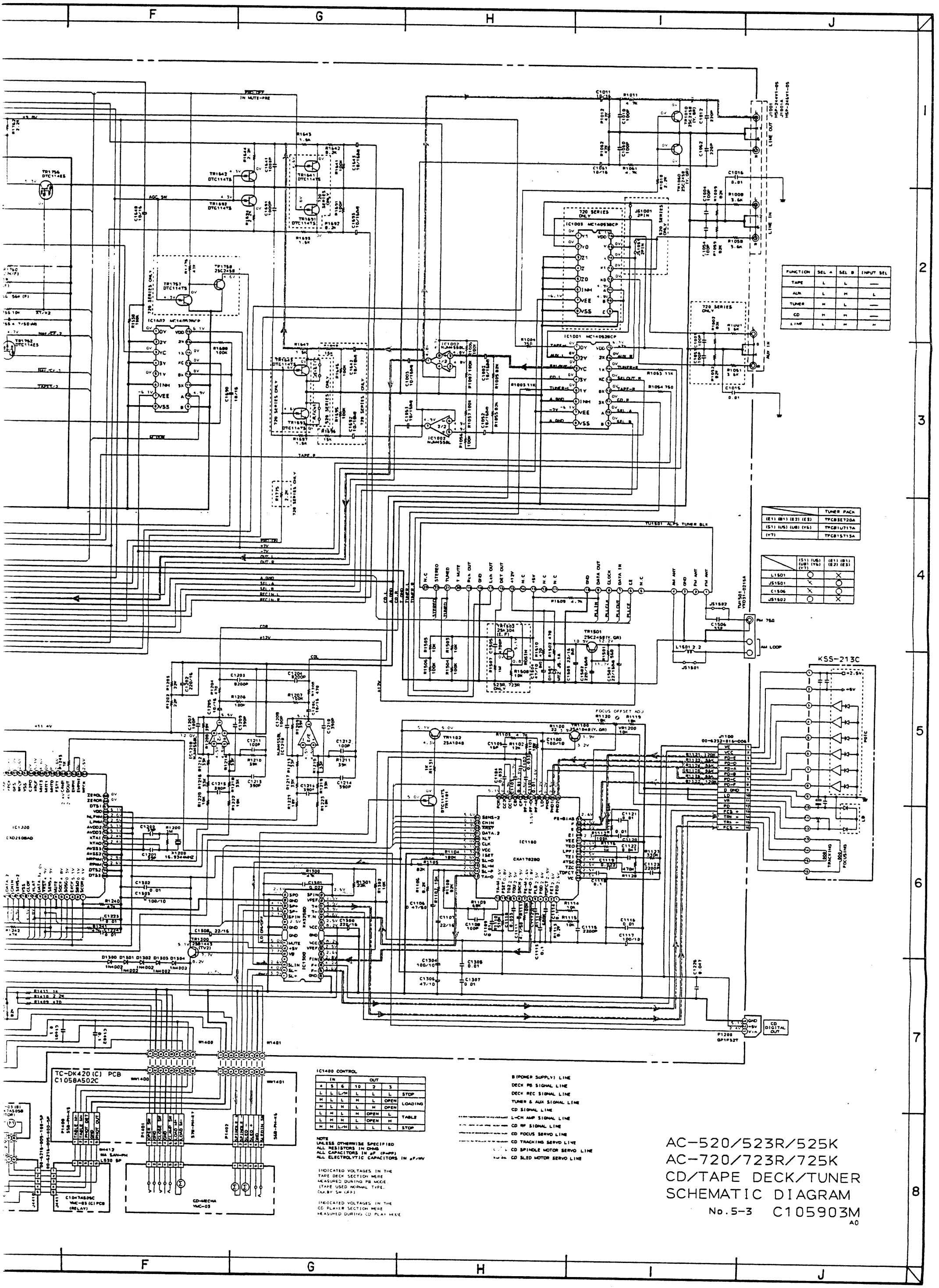
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

**NOTE :** PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

※NOTE

- 52※ INDICATES THE 520 SERIES MODELS.
- 72※ INDICATES THE 720 SERIES MODELS.

1601/1651~ TAPE1
1611/1661~ TAPE2
1621/1671~ PB (DOLBY)
1631/1681~ DOLBY (CH)
1641/1691~ INPUT
1701~ IN/OUT
1721~ BIAS (A)
1731~ BIAS (B)
1741~ HEAD SW
1751~ DOLBY
1771~ REC IN
TAPE 1
TAPE 2
P1005
P1004
IC1681 CXA1897Q
IC1701 BU4094
IC1702 BU4094
IC1200 CXD2508AQ
IC1400 BA6247
REC EQ CONTROL
PB EQ CONTROL
REC EQ
PB EQ
MUTE
AGC
IREF
AMS
NR
NORMAL REC
TAPE 1
TAPE 2
TC-DK420(B) PCB
C1058A502B
TC-DK420(A) PCB C1058A502A
TC-DK420(C) PCB
C1058A502C
TO SYSCON101 PCB J3022
TO MAIN420/620(A) PCB P6
TO MAIN420/620(A) PCB P21
W1006
W1021 7PIN
WA SAN-PH L100 7P
VMC-03(B) C1047A05B (MOTOR)
VMC-03(A) PCB C1047A05A (SENSOR)
VMC-03(C) PCB (RELAY)
D4410 GL4800
TR4410 PT4800
+11.4V
+9.8V
+7V
-7V
OUT R
OUT L
A.GND
REC IN L
REC IN R
PHOTOIN
SPI A
SPI B
+12V
AGC SW
LINE OUT MUTE
INPUT SELECT




| FUNCTION | SEL A | SEL B | INPUT SEL |
|---|---|---|---|
| TAPE | L | L | — |
| AUX | L | H | L |
| TUNER | H | L | — |
| CD | H | H | — |
| LINE | L | H | H |

| | TUNER PACK |
|---|---|
| (E1) (B1) (E2) (E3) | TPCB3E720A |
| (S1) (US) (UB) (Y6) | TPCB1U719A |
| (Y7) | TPCB1S713A |

| | (S1) (US) (UB) (Y7) | (Y6) | (B1) (B1) (E2) (E3) |
|---|---|---|---|
| L1501 | ○ | | × |
| JS1501 | × | | ○ |
| C1506 | × | | ○ |
| JS1502 | ○ | | × |

| IN | | | OUT | | | |
|---|---|---|---|---|---|---|
| A | 5 | 6 | 10 | 2 | 3 | |
| L | L | L/H | L | L | L | STOP |
| H | L | L | H | L | OPEN | LOADING |
| H | L | H | L | H | OPEN | |
| L | H | L | H | OPEN | L | TABLE |
| L | H | H | L | OPEN | H | |
| H | H | L/H | L | L | L | STOP |

## PRINCIPAL PARTS LOCATION

**ICs**

| | |
|---|---|
| IC1001 | C3 |
| IC1002 | D4 |
| IC1003 | B,C3,4 |
| IC1100 | B2 |
| IC1200 | D2 |
| IC1210 | D3 |
| IC1300 | B,C3 |
| IC1400 | A1 |
| IC1601 | E5 |
| IC1602 | F4 |
| IC1701 | F1 |
| IC1702 | F1 |

**TRANSISTORs**

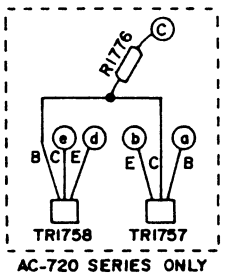
| | |
|---|---|
| TR1010 | B4 |
| TR1060 | C4 |
| TR1100 | A,B3 |
| TR1101 | B3 |
| TR1102 | B3 |
| TR1300 | C3 |
| TR1301 | D1 |
| TR1302 | D1 |
| TR1400 | B1 |
| TR1401 | C2 |
| TR1501 | B6 |
| TR1502 | A6 |
| TR1601 | E6 |
| TR1611 | D6 |
| TR1612 | D6 |
| TR1613 | D6 |
| TR1621 | F6 |
| TR1631 | F5 |
| TR1635 | F5 |
| TR1641 | F5 |
| TR1642 | F5 |
| TR1643 | F5 |
| TR1651 | E6 |
| TR1661 | D6 |
| TR1662 | D6 |
| TR1663 | D6 |
| TR1671 | E6 |
| TR1681 | D5 |
| TR1685 | F5 |
| TR1691 | D5 |
| TR1692 | D5 |
| TR1693 | D5 |
| TR1701 | F1 |
| TR1702 | F3 |
| TR1721 | F2 |
| TR1722 | F2 |
| TR1723 | C6 |
| TR1724 | C6 |
| TR1725 | C6 |
| TR1726 | F3 |
| TR1741 | E6 |
| TR1742 | E6 |
| TR1743 | D,E6 |
| TR1751 | D5 |
| TR1752 | F5 |
| TR1756 | C5 |

**CONNECTORs**

| | |
|---|---|
| J1001 | A3,4 |
| J1002 | F1,2 |
| J1100 | B3 |
| P1004 | D6 |
| P1005 | E6 |
| P1200 | A1,2 |

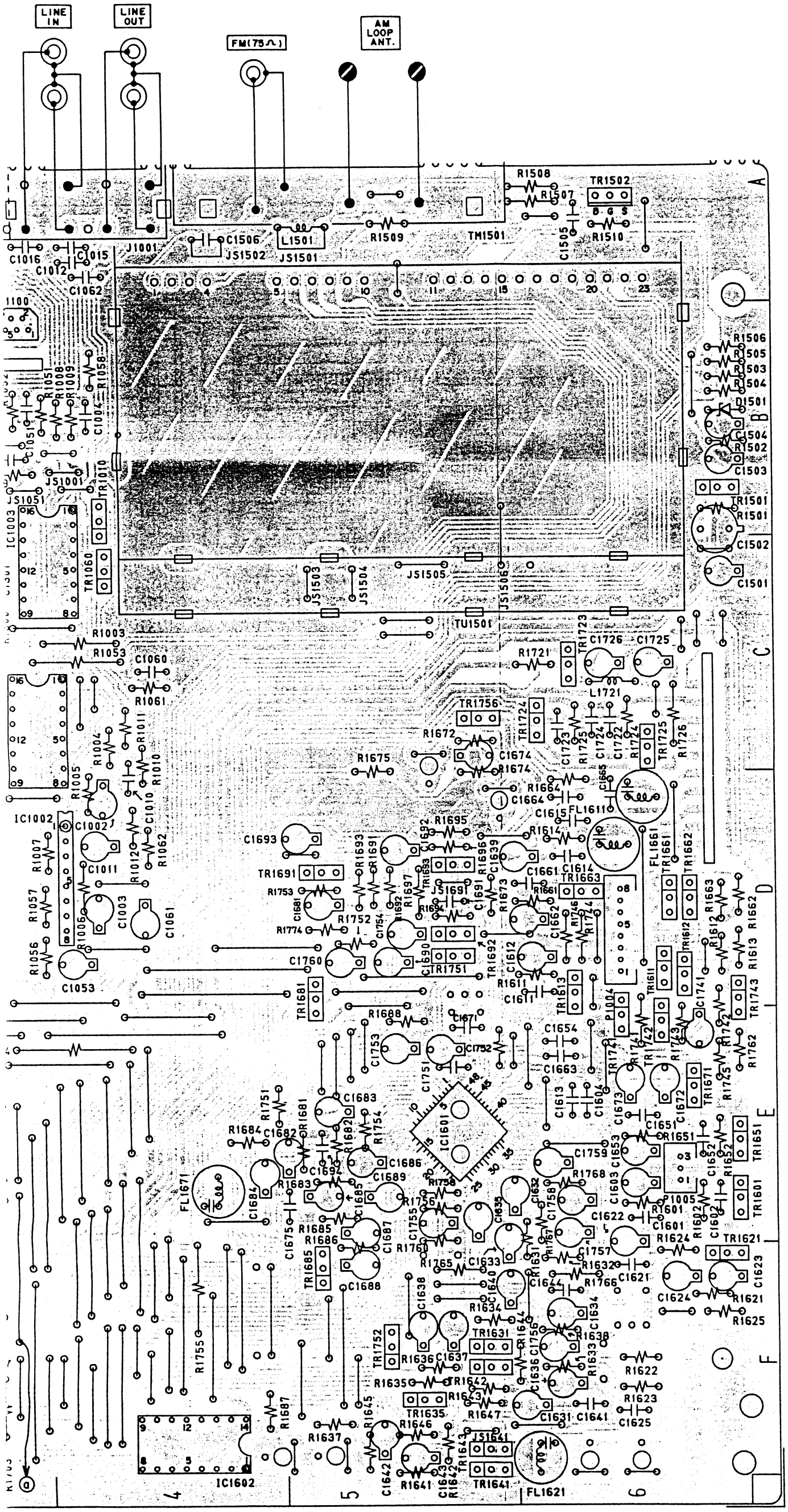
**WIREs**

| | |
|---|---|
| W1006 | E1 |
| W1201 | D,E1 |
| W1400 | B1 |
| W1401 | C1 |

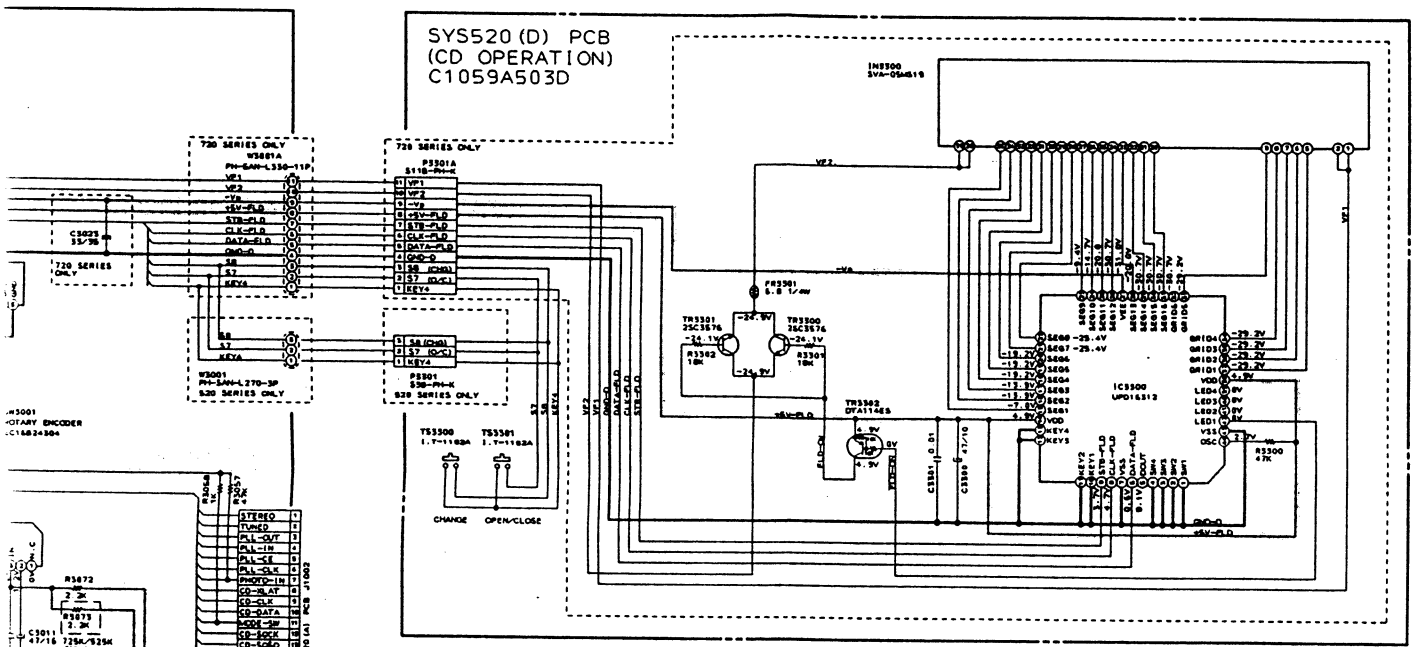


AC-720 SERIES ONLY

TC-DK420(A) PCB C1058A502


LINE IN
LINE OUT
FM(75Ω)
AM LOOP ANT.
R1508
R1507
TR1502
G S
R1509
TM1501
C1505
R1510
C1506
L1501
JS1502
JS1501
C1016
C1012
C1015
C1062
J1001
1100
R1051
R1008
R1009
R1058
C1004
C1051
JS1001
TR1010
JS1051
IC1003
TR1060
R1003
R1053
C1060
R1061
R1004
R1011
R1005
R1010
C1010
IC1002
C1002
C1011
R1012
R1062
R1007
R1057
R1006
C1003
C1061
R1056
C1053
JS1503
JS1504
JS1505
JS1506
TU1501
R1506
R1505
R1503
R1504
D1501
C1504
R1502
C1503
TR1501
R1501
C1502
C1501
R1721
TR1723
C1726
C1725
L1721
TR1756
TR1724
R1672
R1675
C1674
R1674
C1723
R1725
C1724
C1722
R1724
TR1725
R1726
C1665
R1664
C1664
C1615
FL1611
R1695
R1614
C1693
TR1691
R1753
C1681
R1752
R1774
C1760
C1754
C1690
TR1751
TR1692
C1639
C1691
R1696
R1693
R1691
TR1693
R1697
JS1691
R1694
R1673
C1661
C1614
TR1663
R1661
C1662
R1746
R1744
C1612
R1612
TR1611
FL1661
TR1661
TR1662
R1663
R1662
R1613
C1741
TR1743
R1762
R1611
C1613
TR1681
R1688
C1671
C1753
C1752
C1654
C1663
P1004
TR1741
R1741
R1742
R1743
R1745
R1671
C1751
C1683
R1751
R1681
R1754
R1684
C1682
R1682
C1692
C1686
C1689
R1683
C1684
FL1671
C1685
R1758
R1756
R1755
C1675
R1685
R1686
C1687
TR1685
C1688
C1638
R1634
TR1631
TR1752
R1636
C1637
R1635
TR1642
R1643
TR1635
R1647
C1631
C1641
R1622
R1623
C1625
R1645
R1646
R1637
C1642
C1643
R1642
R1641
TR1643
JS1641
TR1641
FL1621
IC1601
IC1602
C1759
C1653
R1651
TR1671
C1672
C1673
C1651
C1652
R1652
TR1651
TR1601
P1005
R1601
C1601
C1602
R1602
C1622
R1768
C1758
C1632
C1633
R1765
R1766
C1644
C1640
C1621
R1624
TR1621
C1624
R1621
C1623
R1625
C1757
R1632
R1631
R1633
C1636
C1756
C1634
R1644
R1638
R1639
R1640
R1767
R1761
R1760
C1755
R1759
TR1758
C1635

SYS520 (A) PCB
(SYSTEM CONTROL/FLD)
C1059A503A

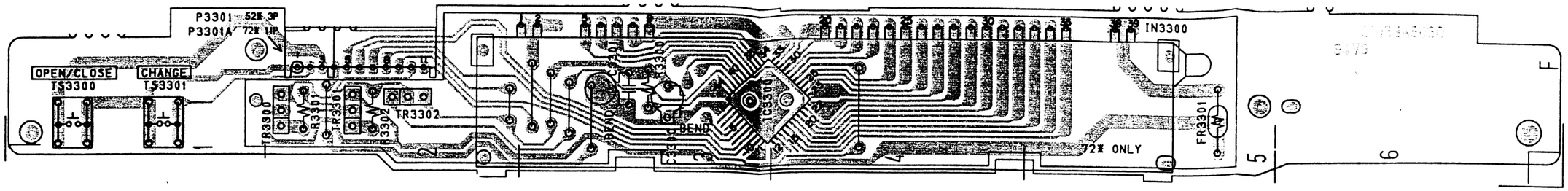



| | | E1/ES/B1 | E1 (RGS) | US/UB/Y6 | V7 | S1 | A8 | J1 | J2 | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|
| D3113 | | × | × | × | ○ | ○ | × | ○ | × | VERSION |
| D3114 | | × | × | ○ | ○ | × | × | × | ○ | |
| D3115 | | × | × | × | × | ○ | ○ | × | ○ | |
| D3116 | | × | ○ | × | × | × | × | ○ | ○ | RDS |
| D3117 | | × | × | ○ | ○ | × | × | × | × | KARAOKE |
| D3119 | | ○ | ○ | × | × | × | × | ○ | ○ | BEAT CANCEL |
| D3120 | 720 SERIES | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | PROLOGIC |
| | 520 SERIES | × | × | × | × | × | × | × | × | |

# AC-520/523R/525K
# AC-720/723R/725K
# SYSCON/MECHA.DRIVE
# SCHEMATIC DIAGRAM

No.5-4 C105904M

A0

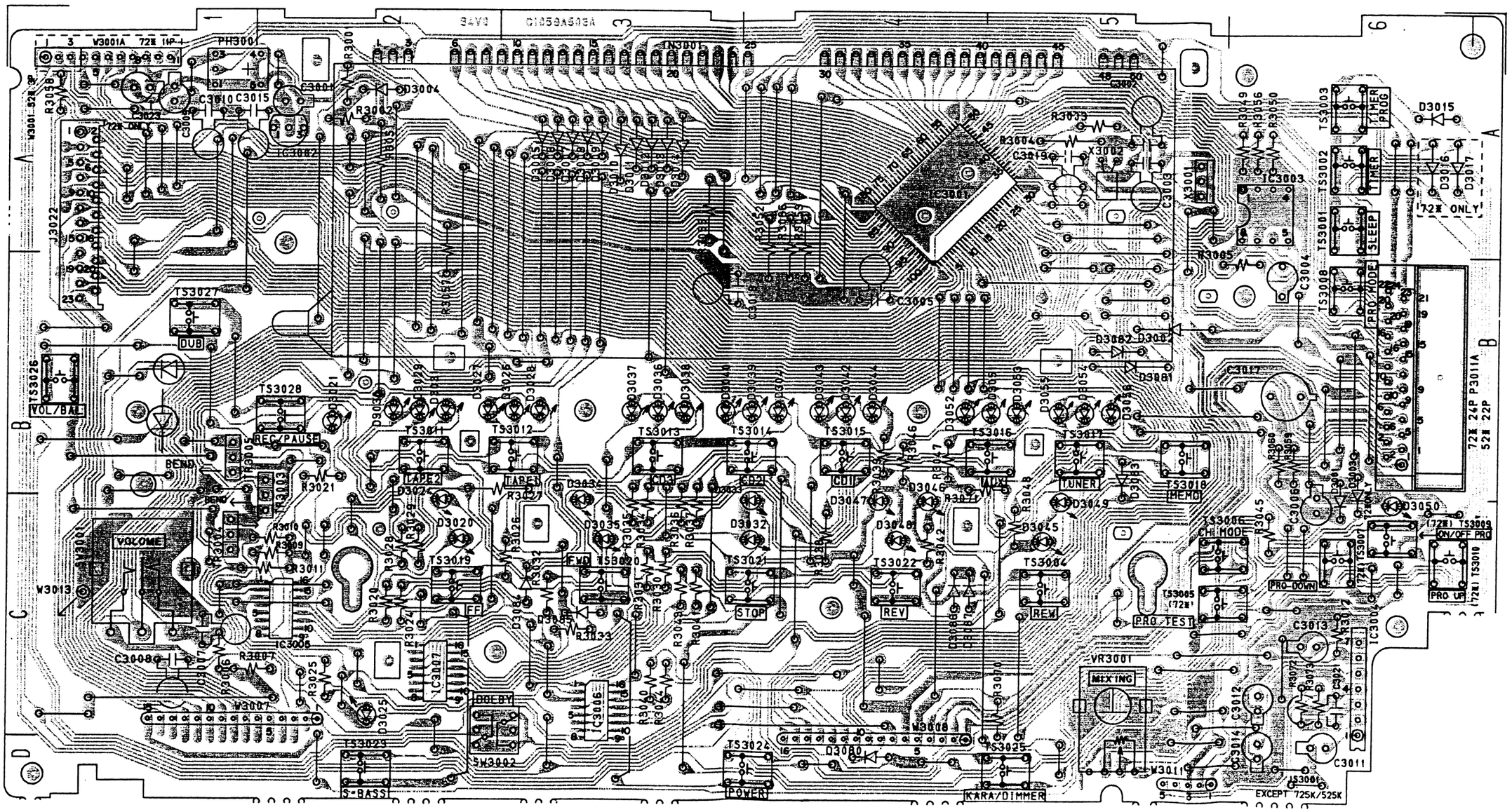



SYS520(D) PCB C1059A503D

※NOTE

- 52* INDICATES THE 520 SERIES MODELS.
- 72* INDICATES THE 720 SERIES MODELS.

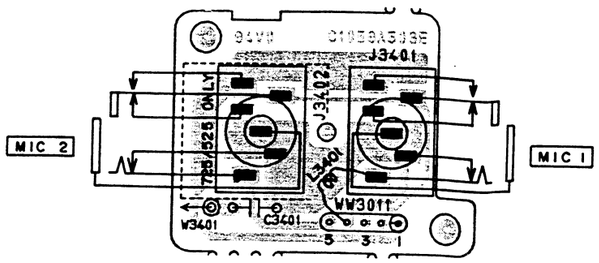
**NOTE :** PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



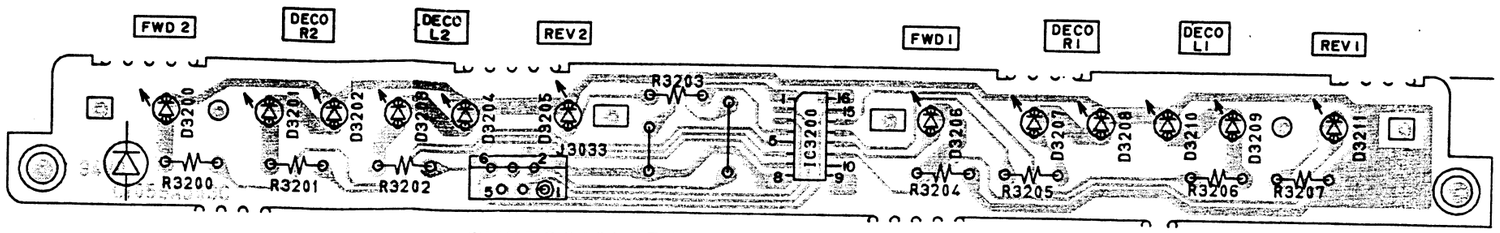

SYS520(A) PCB C1059A503A



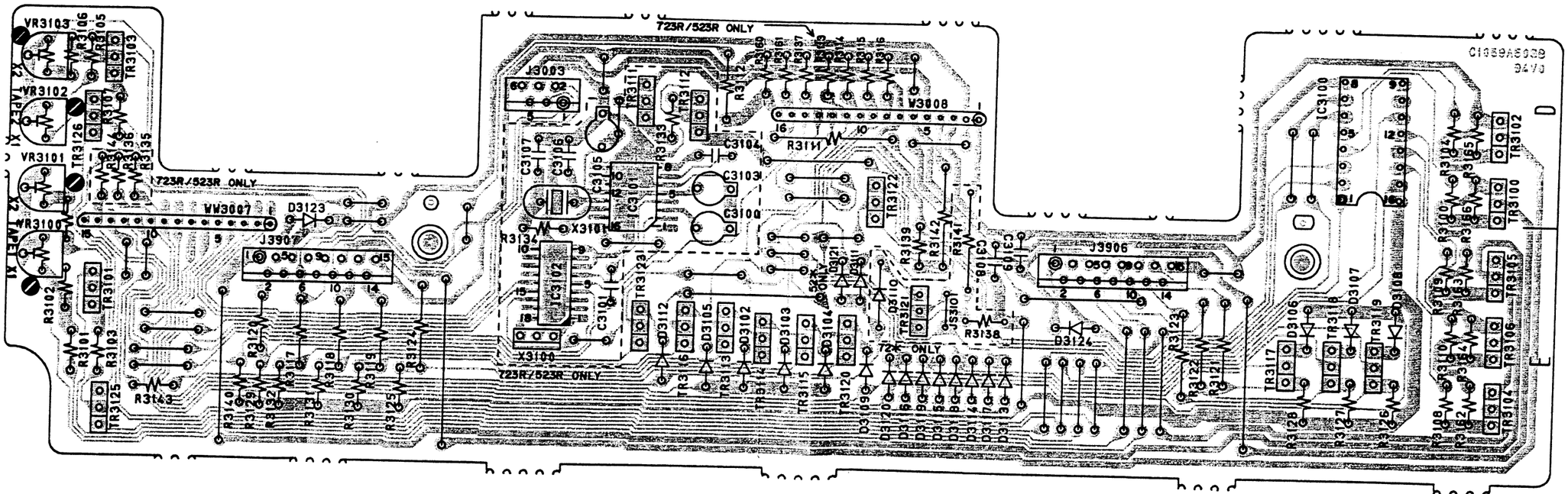
-01248 / Druck5




SYS520(E) PCB C1059A503E




SYS520(C) PCB C1059A503C

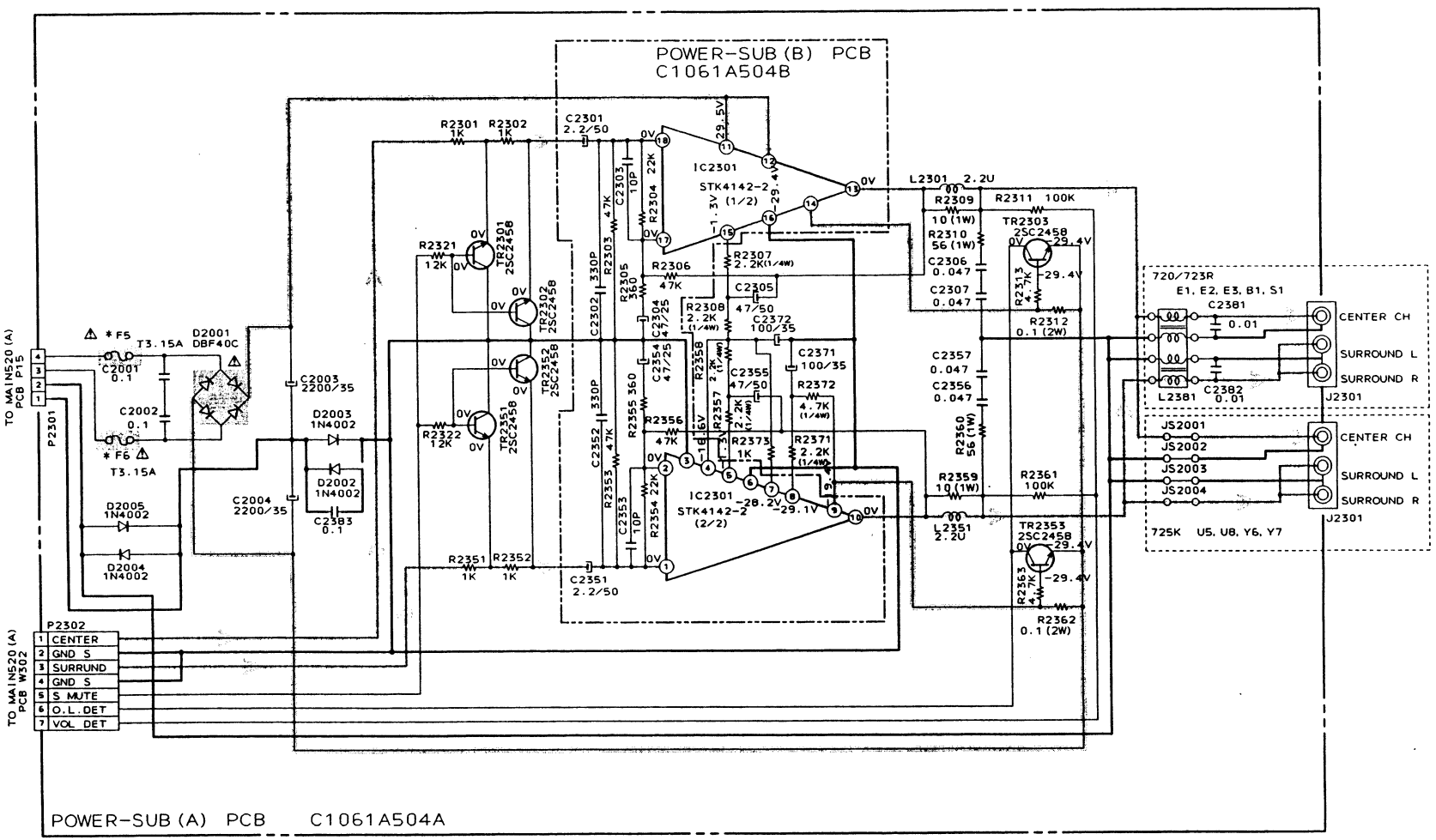



SYS520(B) PCB C1059A503B

**NOTE:** PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



XAI-01248 / Druck6




WARNING: ⚠ AND [redacted] INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET [redacted], ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT.

B (POWER SUPPLY) LINE

CENTER CH SIGNAL LINE

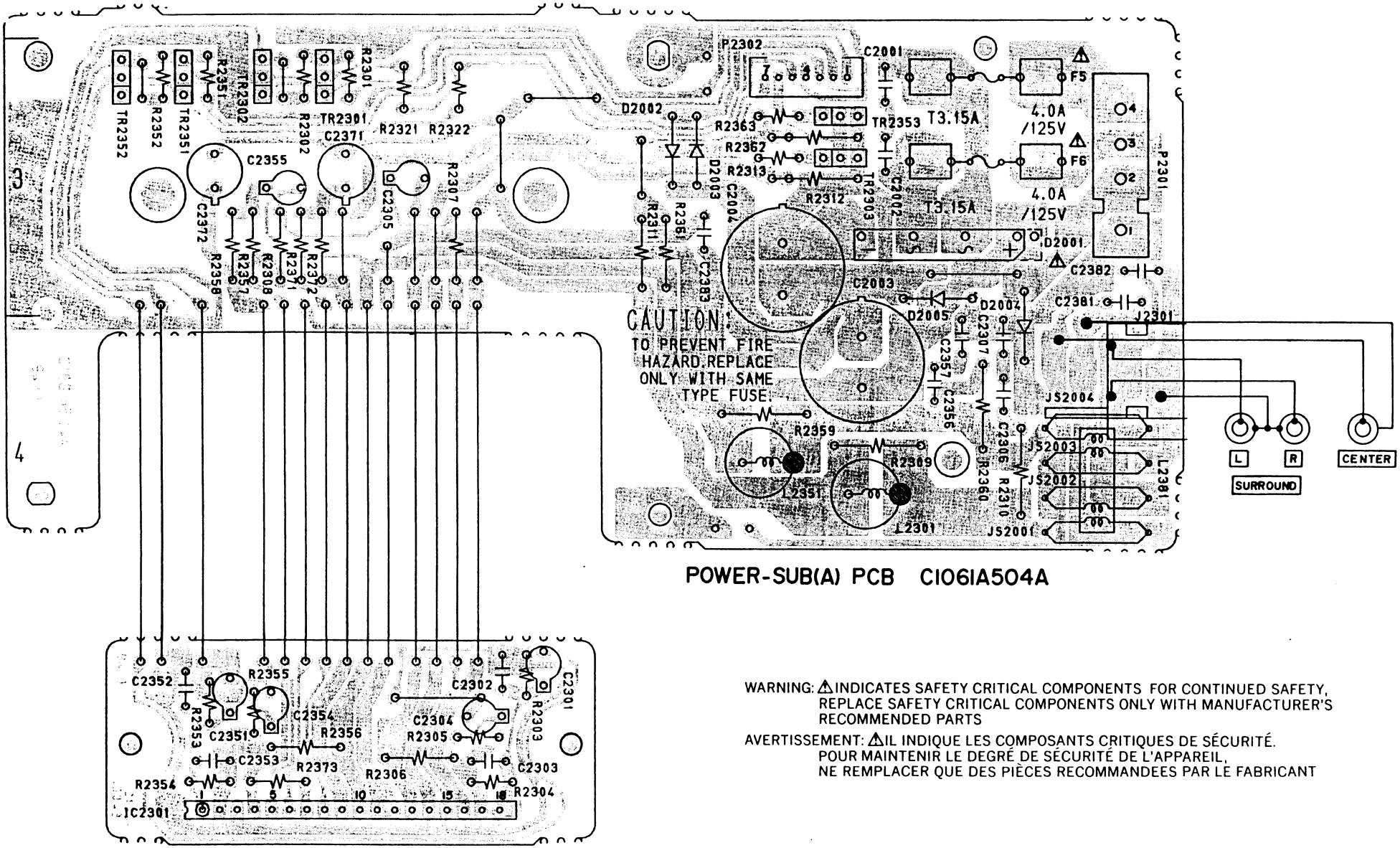
SURROUND CH SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/8W
ALL CAPACITORS IN μF 50WV

# AC-720/723R/725K
# POWER-SUB
# SCHEMATIC DIAGRAM

No.5-5 C105905M

A2




WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT